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Trade Study for the Feed Tank Fill Status Issue for Low-Activity Waste Feed Issue 19D

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Abstract: This document identifies and evaluates alternatives that will provide DOE-RL sufficient information from which a decision can be negotiated regarding the Project Hanford Management Contractor team's use of tanks 241-AP-106/-108 versus the private contractors need to upgrade them for their purposes.

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**TRADE STUDY FOR THE FEED
TANK FILL STATUS ISSUE FOR
LOW-ACTIVITY WASTE FEED
--ISSUE 19D**

April 1998

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EXECUTIVE SUMMARY

The scope of this study is to identify and evaluate a set of alternatives and measures that will provide the U.S. Department of Energy - Richland Operations Office (RL) sufficient information from which a decision can be negotiated regarding the Project Hanford Management Contract (PHMC) Team's use of tanks 241-AP-106 and 241-AP-108 versus the Private Contractors (PCs) need to upgrade them. The desired alternatives to be evaluated and the measures for comparison were selected in a separate meeting with the customer (RL). These are defined in the sections that follow.

The following summarizes the results of this study. More detailed explanations of the results can be found later in this summary and in Section 6.0 of the document.

1. *Relinquishing the use of tanks early increases the programmatic risk when compared to the baseline via the following areas:*
 - **Tank Space.** *The amount of usable tank space decreases. This also impacts the amount of spare and contingency space available.*
 - **Waste Transfer Complexity.** *The complexity of tank farm transfers increases. As double-shell tank (DST) space becomes limited, the number and interdependency of waste transfers increases.*
 - **Float.** *Float time for low-activity waste (LAW) feed staging operations decreases.*
 - **Waste Segregation.** *The segregation of tank wastes (specifically dilute noncomplexed/dilute complexed wastes) may be violated.*

- *Programmatic risk tends to decrease when the early relinquishment is coupled with a delay in saltwell liquid retrieval. However, this decrease does not offset the increase defined above.*
- *The programmatic risk for Phase 1B operations decreases if the number of LAW contractors decreases.*
- *The one-contractor scenario negatively impacts Phase 2 operations.*

Overall, it is concluded that the results of this study demonstrate that the PHMC Team cannot guarantee delivery of Phase 1B feed if the use of tanks 241-AP-106 and 241-AP-108 are relinquished early and empty for the two-contractor cases. It can also be concluded that the programmatic risk associated with the one-contractor cases is less than the two-contractor cases based upon the metrics and assumptions used in this study. However, since these cases are not developed to the extent of the two-contractor cases (in regards to impact on Tri-Party Agreement milestones, projects, etc.) these results should be considered as preliminary. Additional work will need to be performed to further develop these cases before final conclusions can be drawn.

Based upon the results listed above, the following recommendations are made:

1. *Examine alternatives to emptying and allocating tank 241-AP-107 for accumulation of the PCs returns.*
2. *Evaluate an option that allows the first feed batch (or a newly defined first feed batch) to be present in the tanks at the time that their use by the PHMC Team is relinquished.*
3. *Conduct a separate study that examines a case(s) that includes a further delay of saltwell liquid retrieval or a delay of the start of Phase 1 operations for both the one- and two-contractor scenarios.*

4. Update the modeling assumptions in the Hanford Tank Waste Operations Simulator (HTWOS) that affect LAW and high-level waste (HLW) feed staging and evaporator operations. Also update the model to integrate the Operational Waste Volume Projection (OWVP) completely with other operations and include an algorithm (if available) to account for the reliability, availability, and maintainability of equipment.

These recommendations are more fully defined in Section 7.0

Definition of Alternatives Examined

Figure ES-1 shows the complete range of and the relationships between the parameters under consideration for this study. A brief description of the parameters follows after Figure ES-1. More detailed descriptions of the parameters can be found in Section 2.1.

Figure ES-1. Screening of Alternatives.

Tank Composition. Composition of the waste in 241-AP-106 and 241-AP-108 at the time the use of these tanks is relinquished by the PHMC Team ("Hands-Off" date).

Fill Status. Status of 241-AP-106 and 241-AP-108 at “Hands-Off” date. “One Tank Empty” pertains to a scenario in which there is only one LAW PC.

“Hands-Off” Date. Date when the use of tanks 241-AP-106 and 241-AP-108 is relinquished by the PHMC Team. “Baseline” corresponds to the dates in the Tank Waste Remediation System Operation and Utilization Plan (TWRSO&UP) (Kirkbride et al. 1997) when the tanks are no longer used by tank farm operations (10/2000 for 241-AP-106 and 4/2001 for 241-AP-108)

Saltwell Liquid Retrieval Schedule. Schedule for saltwell liquid retrieval “Base” corresponds to the same schedule as used in the TWRSO&UP (Kirkbride et al. 1997). “Reduced” corresponds to a hypothesized schedule that includes a three-year delay. This schedule is detailed in Section 2.1.4.

The crosshatched parameters in Figure ES-1 were deleted from analysis in this study per direction from RL. Also it was stated by the customer (RL) that the “Baseline” “hands-off” date would only use the “Base” saltwell liquid retrieval schedule. Table ES-1 defines the cases evaluated for this study.

Table ES-1. Definition of Alternatives Under Consideration.

Case	Fill status	“Hands-off” date	Saltwell liquid retrieval schedule
1	Both Tanks Empty	Baseline ^a	Base
2	Both Tanks Empty	4/1/1999	Base
3	Both Tanks Empty	4/1/1999	Reduced
4	One Tank Empty	Baseline ^a	Base
5	One Tank Empty	4/1/1999	Base
6	One Tank Empty	4/1/1999	Reduced

^a Dates are 10/2000 for tank 241-AP-106 and 4/2001 for tank 241-AP-108.

Metrics for Comparison

The data for comparison were obtained by employing the most current version of the HTWOS. The HTWOS model was used in the TWRSO&UP to model the interactions between Phase 1 HLW and LAW feed staging operations, Phase 2 SST retrieval operations, and daily

tank farm operations. The metrics defined as needed for the comparisons are given and defined below:

Synopsis of Model Changes. *Changes made to the HTWOS model since the release of the TWRSO&UP, for specific contractor scenarios (two- or one-contractor), and for specific cases.*

Tank Transfer History. *Tank-to-tank transfers, evaporator campaigns, and waste additions to the DST system. Evaluations of LAW and HLW feed staging will be made here.*

Evaporator Schedule. *Evaporator usage schedule.*

Vendor Feed Tank Fill History. *Volume history of 241-AP-108 and possibly 241-AP-106 depending on scenario (two- or one-contractor).*

PHMC Staging Tank Fill History. *Volume history of 241-AP-102 and 241-AP-104.*

DST System Fill History. *History of total DST volume and amount of “usable” volume available.*

Phase 2 SST Retrieval. *Summation of volume of SST waste retrieved and number of SSTs retrieved from.*

The data obtained for each of the cases can be found in Section 4.0.

The following table (Table ES-2) summarizes the results. The scores for each case are based upon Case 1 being the standard. The relative score for each case for each parameter is calculated based on its performance when compared to the standard. Section 6.0 defines the logic behind the scoring in more detail.

Table ES-2. Summary of Results.

Metric	Tank transfers						Evaporator usage	Vendor tanks “hands-off” on time
	High-level waste staging		Low-activity waste staging		Waste transfers			
	Delivery	Float	Delivery	Float	Volume	Number		
Case								
1	Met	0	Met	0	0	0	0	Met
2	Met	0	Met	-2	0	0	-1	Met
3	Met	+1	Met	-1	0	0	0	Met
4	Met	+1	Met	+3	+1	+1	0	Met
5	Met	0	Met	+1	+1	+1	-1	Met
6	Met	+1	Met	+2	+1	+1	0	Met
Metric	Staging tanks usage	Total double-shell tank system			Phase 2 single-shell tank retrieval			
		Total volume	Free volume	DN/DC segregation	Tanks	Volume		
Case								
1	0	0	0	0	0	0	0	
2	-2	0	-1	-1	0	0		
3	-2	-1	-1	-1	0	0		
4	0	-1	+1	0	-1	-1		
5	-1	-1	0	-1	-1	-1		
6	-1	-2	0	-1	-1	-1		

As can be seen from the results, the early "hands-off" date decreases the overall score of the case regardless of the contractor scenario being modeled. However, the scores tend to increase when the early release is coupled with a delay in saltwell liquid retrieval, but not so much as to equal the base cases (Cases 1 or 4).

The scores for the "sister" cases (where the only difference is the number of contractors) tend to favor the one-contractor scenarios for all metrics except for total volume and Phase 2 SST retrieval. These two parameters reflect negatively on the one-contractor scenarios because

these cases do not remove as much overall waste from the DST system as the two-contractor cases. Therefore, the ending DST volume is higher and fewer SSTs can be retrieved.

The data demonstrate that for each case, based upon the constraints within the model, feed delivery can be accomplished by the PHMC Team on schedule. However, the data also demonstrate that tank farm operations (tank-to-tank waste transfers, waste generator transfers, evaporator operations) are very complex and interdependent before and during the early years of Phase 1. This is caused by the usable DST space limitation and is true regardless of the number of LAW contractors or which saltwell liquid retrieval schedule is used. Common sense tells us that as the complexity and interdependency of tank farm operations increase, the impact a specific transfer has upon the entire system increases and therefore the risk of failure increases. Thus it is concluded that for the early "hands-off" cases (Cases 2, 3, 5, and 6) the PHMC Team can not guarantee delivery of LAW and HLW feed to the PCs solely based upon the output of this study. Another study should be undertaken that includes reliability, availability, and maintainability (RAM) algorithms of tank farm components (pumps, valves, piping, etc.) to better simulate "reality." The results of the RAM analyses are intended to be included in a future revision of the HTWOS model.

The study also shows that the saltwell liquid retrieval schedule should either be accelerated so that it completes in 1999/2000, or include an additional two-year or so delay (2000 to 2002) or reduction (i.e., less salt well liquid retrieved during this time frame). The early completion of saltwell liquid retrieval may remove the potential conflict between it and feed staging operations, but this scenario is unlikely. The retrieval of saltwell liquid is presently behind the "base" schedule and therefore a delay/reduction is already expected in the completion date. A two-year or so delay or reduction in the retrieval operations has the potential to move the bulk of the volume conflict away from the time period at which tank space is extremely tight, but this option needs to be examined in more detail. A too lengthy delay may detrimentally impact the two-contractor cases because (at present) they process waste that results from the concentration of retrieved saltwell liquid (241-AP-101, 241-AW-104, and 241-AN-106). Also, Tri-Party Agreement milestones may need to be renegotiated and the risk of leaving salt well liquid in SSTs for longer periods of time needs to be evaluated.

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CONTENTS

1.0 BACKGROUND	1
2.0 GENERATION OF ALTERNATIVES	3
2.1 ALTERNATIVES GENERATION PROCESS	3
2.1.1 Tank Composition	3
2.1.2 Fill Status	4
2.1.3 "Hands-Off" Date	4
2.1.4 Saltwell Liquid Retrieval Schedule	5
2.2 SCREENING OF ALTERNATIVES	5
3.0 MEASURES	9
3.1 SYNOPSIS OF MODEL CHANGES	9
3.2 WASTE TRANSFER HISTORY	9
3.3 EVAPORATOR SCHEDULE	10
3.4 VENDOR FEED TANK FILL HISTORY	10
3.5 PROJECT HANFORD MANAGEMENT CONTRACTOR STAGING TANKS FILL HISTORY	10
3.6 DOUBLE-SHELL TANK SYSTEM FILL HISTORY	10
3.7 PHASE 2 SINGLE-SHELL TANK RETRIEVAL	10
4.0 EVALUATION OF CASES	11
4.1 MODEL UPDATES	11
4.1.1 Overall Changes	11
4.1.2 Model Changes for the Two-Contractor Cases	13
4.1.3 Model Changes for the One-Contractor Cases	13
4.1.4 Technical Approach for Evaluation	14
4.1.5 Modeling Assumptions of Note	15
4.2 CASE 1	15
4.2.1 Synopsis of Model Changes	15
4.2.2 Waste Transfer History	15
4.2.3 Evaporator Schedule	16
4.2.4 Vendor Feed Tank Fill History	17
4.2.5 PHMC Staging Tank Fill History	17
4.2.6 Double-Shell Tank System Fill History	20
4.2.7 Phase 2 Single-Shell Tank Retrieval	20
4.3 CASE 2	21
4.3.1 Synopsis of Model Changes	21
4.3.2 Waste Transfer History	21
4.3.3 Evaporator Schedule	22
4.3.4 Vendor Feed Tank Fill History	23
4.3.5 PHMC Staging Tank Fill History	23
4.3.6 Total Double-Shell Tank System Fill History	26
4.3.7 Phase 2 Single-Shell Tank Retrieval	26
4.4 CASE 3	27

4.4.1	Synopsis of Model Changes	27
4.4.2	Waste Transfer History	27
4.4.3	Evaporator Schedule	28
4.4.4	Vendor Feed Tank Fill History	29
4.4.5	PHMC Staging Tank Fill History	29
4.4.6	Total Double-Shell Tank System Fill History	32
4.4.7	Phase 2 Single-Shell Tank Retrieval	32
4.5	CASE 4	33
4.5.1	Synopsis of Model Changes	33
4.5.2	Waste Transfer History	33
4.5.3	Evaporator Schedule	34
4.5.4	Vendor Feed Tank Fill History	35
4.5.5	PHMC Staging Tank Fill History	36
4.5.6	Total Double-Shell Tank System Fill History	36
4.5.7	Phase 2 Single-Shell Tank Retrieval	38
4.6	CASE 5	38
4.6.1	Synopsis of Model Changes	39
4.6.2	Waste Transfer History	39
4.6.3	Evaporator Schedule	40
4.6.4	Vendor Feed Tank Fill History	41
4.6.5	PHMC Staging Tank Fill History	41
4.6.6	Total Double-Shell Tank System Fill History	43
4.6.7	Phase 2 Single-Shell Tank Retrieval	43
4.7	CASE 6	44
4.7.1	Synopsis of Model Changes	44
4.7.2	Waste Transfer History	44
4.7.3	Evaporator Schedule	45
4.7.4	Vendor Feed Tank Fill History	45
4.7.5	PHMC Staging Tank Fill History	45
4.7.6	Total Double-Shell Tank System Fill History	48
4.7.7	Phase 2 Single-Shell Tank Retrieval	48
5.0	EVALUATION OF ALTERNATIVES	51
5.1	WASTE TRANSFER HISTORY	51
5.1.1	Low-Activity Waste and High-Level Waste Feed Staging Transfers	51
5.1.2	Number and Volume of Tank Transfers	55
5.2	EVAPORATOR SCHEDULE	57
5.3	TOTAL DOUBLE-SHELL TANK SYSTEM FILL HISTORY	60
5.4	PHASE 2 SINGLE-SHELL TANK RETRIEVAL	66
6.0	SUMMARY	69
6.1	SUMMARY OF RESULTS	69
6.2	OBSERVATIONS	71
7.0	RECOMMENDATIONS	75

8.0 REFERENCES	77
APPENDIX A - TRANSFER LIST	A-1

LIST OF FIGURES

2.1-1. Generation of Alternatives	4
2.2-1. Screening of Alternatives	6
4.2-1. Fill History of 241-AP-106 for Case 1	18
4.2-2. Fill History of 241-AP-108 for Case 1	18
4.2-3. Fill History of 241-AP-102 for Case 1.	19
4.2-4. Fill History for 241-AP-104 for Case 1	19
4.2-5. Total and Free Volume History for Case 1	20
4.3-1. Fill History of 241-AP-106 for Case 2	24
4.3-2. Fill History of 241-AP-108 for Case 2	24
4.3-3. Fill History of 241-AP-102 for Case 2	25
4.3-4. Fill History of 241-AP-104 for Case 2	25
4.3-5. Total and Free Volume History for Case 2	26
4.4-1. Fill History of 241-AP-106 for Case 3	30
4.4-2. Fill History of 241-AP-108 for Case 3	30
4.4-3. Fill History of 241-AP-102 for Case 3	31
4.4-4. Fill History of 241-AP-104 for Case 3	31
4.4-5. Total and Free Volume History for Case 3	33
4.5-1. Fill History of 241-AP-108 for Case 4	36
4.5-2. Fill History of 241-AP-102 for Case 4	37
4.5-3. Fill History of 241-AP-104 for Case 4	37
4.5-4. Total and Free Volume for Case 4	38
4.6-1. Fill History of 241-AP-108 for Case 5	41
4.6-2. Fill History of 241-AP-102 for Case 5	42
4.6-3. Fill History of 241-AP-104 for Case 5	42
4.6-4. Total and Free Volume History for Case 5	43
4.7-1. Fill History of 241-AP-108 for Case 6	46
4.7-2. Fill History of 241-AP-102 for Case 6	47
4.7-3. Fill History of 241-AP-104 for Case 6	47
4.7-4. Total and Free Volume History for Case 6	48
5.1-1. Total Volume of Tank Transfers per Calendar Year Two-Contractor Cases	55
5.1-2. Total Number of Tank Transfers per Calendar Year Two-Contractor Cases	56
5.1-3. Total Volume of Tank Transfers per Calendar Year One-Contractor Cases	56
5.1-4. Total Number of Tank Transfers per Calendar Year One-Contractor Cases.	57
5.3-1. Total Volume Comparison for Two-Contractor Cases	61
5.3-2. Free Volume Comparison for Two-Contractor Cases	61
5.3-3. Total Volume Comparison for One-Contractor Cases	62
5.3-4. Free Volume Comparison for One-Contractor Cases	62
5.3-5. Total Volume Comparison - Cases 1 and 4	63
5.3-6. Free Volume Comparison - Cases 1 and 4	63
5.3-7. Total Volume Comparison - Cases 2 and 5	64
5.3-8. Free Volume Comparison - Cases 2 and 5.	64
5.3-9. Total Volume Comparison - Case 3 and 6	65
5.3-10. Free Volume Comparison - Cases 3 and 6	65

LIST OF TABLES

2.1-1. Saltwell Liquid Retrieval Schedules.	5
2.2-1. Definition of Alternatives Under Consideration	7
4.2-1. Low-Activity Waste Feed Delivery Schedule for Case 1	16
4.2-2. High-Level Waste Feed Delivery Schedule for Case 1	16
4.2-3. Evaporator Usage by Year for Case 1	17
4.2-4. Phase 2 Single-Shell Tank Retrieval Status for Case 1	21
4.3-1. Low-Activity Waste Feed Delivery Schedule for Case 2	22
4.3-2. High-Level Waste Feed Delivery Schedule for Case 2	22
4.3-3. Evaporator Usage by Year for Case 2	23
4.3-4. Phase 2 Single-Shell Tank Retrieval Status for Case 2	27
4.4-1. Low-Activity Waste Feed Delivery Schedule for Case 3	28
4.4-2. High-Level Waste Feed Delivery Schedule for Case 3	28
4.4-3. Evaporator Usage by Year for Case 3	29
4.4-4. Phase 2 Single-Shell Tank Retrieval Status for Case 3	32
4.5-1. Low-Activity Waste Feed Delivery Schedule for Case 4	34
4.5-2. High-Level Waste Feed Delivery Schedule for Case 4	34
4.5-3. Evaporator Usage by Year for Case 4	35
4.5-4. Phase 2 Single-Shell Tank Retrieval Status for Case 4	38
4.6-1. Low-Activity Waste Feed Delivery Schedule for Case 5	39
4.6-2. High-Level Waste Feed Delivery Schedule for Case 5	39
4.6-3. Evaporator Usage by Year for Case 5	40
4.6-4. Phase 2 Single-Shell Tank Retrieval Status for Case 5	44
4.7-1. Low-Activity Waste Feed Delivery Schedule for Case 6	44
4.7-2. High-Level Waste Feed Delivery Schedule for Case 6	45
4.7-3. Evaporator Usage by Year for Case 6	46
4.7-4. Phase 2 Single-Shell Tank Retrieval Status for Case 6	49
5.1-1. Low-Activity Waste Time for Sampling--Two-Contractor Cases	52
5.1-2. Low-Activity Waste Time for Sampling--One-Contractor Cases	52
5.1-3. High-Level Waste Time for Sampling--Two-Contractor Cases	53
5.1-4. High-Level Waste Time for Sampling--One-Contractor Cases	53
5.2-1. Evaporator Usage for Two-Contractor Cases	58
5.2-2. Evaporator Usage for One-Contractor Cases	59
5.4-1. Single-Shell Tank Retrieval Status by Case	67
6.1-1. Summary of Results	69

LIST OF TERMS

AGA	Alternatives Generation and Analysis
DC	Dilute complexed
DN	Dilute non-complexed
DOE	U.S. Department of Energy
DRT	Dilute receiver tank
FY	Fiscal year
HLW	High-level waste
HTWOS	Hanford Tank Waste Operation Simulator
ICD	Interface Control Document
LMAES	Lockheed Martin Advanced Environmental Services
LMHC	Lockheed Martin Hanford Corporation
NHC	Numatec Hanford Corporation
OWVP	Operational Waste Volume Projection
PC	Private Contractor
PHMC	Project Hanford Management Contractor
LAW	Low-Activity Waste
RL	U.S. Department of Energy-Richland Operations Office
SST	Single-shell tank
SWL	Saltwell liquid
TWRS	Tank Waste Remediation System
TWRSO&UP	Tank Waste Remediation System Operation and Utilization Plan

TRADE STUDY FOR THE FEED TANK FILL STATUS ISSUE FOR LOW-ACTIVITY WASTE FEED - ISSUE 19D

1.0 BACKGROUND

The privatization contracts (DOE 1997a,b) state that each private contractor (PC) will modify their assigned feed tank (241-AP-106 or 241-AP-108) and supporting systems to meet their specific needs for processing operations. However, due to double-shell tank (DST) space limitations, the current Operational Waste Volume Projection (OWVP) (Rev. 23) (Strode and Boyles 1997) and the *Tank Waste Remediation System Operation and Utilization Plan* (TWRSO&UP) (Kirkbride et al. 1997) continue to use these tanks for waste management activities during the same time frame that the PCs are expected to be modifying them. Therefore, the U.S. Department of Energy-Richland Operations Office (RL) needs to decide if the Project Hanford Management Contract (PHMC) Team can continue to use 241-AP-106 and 241-AP-108 as currently assumed. If so, the PHMC Team and the PCs need to coordinate the PHMC Team's continued use of these tanks with permitting, tank upgrade, and turnover activities. If not, the PHMC Team will need to perform a study to determine how to conduct feed staging and other tank farm operations without the use of these tanks. This study is the "if not" study.

The scope of this study is to identify and evaluate a set of alternatives and measures that will provide RL sufficient information from which a decision can be negotiated regarding the PHMC Team's use of these tanks versus the PC's need to upgrade them. The desired alternatives to be evaluated and the measures for comparison were selected in a separate meeting with the customer (RL) and are defined in Section 2.0.

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2.0 GENERATION OF ALTERNATIVES

The range of alternatives were originally defined in the "Feed Tank Fill Status Issue" activity description. This activity description stated that the study will evaluate up to 6 cases that consist of "yet to be determined" combinations of the following parameters:

- Desired Tank Fill Status
 - Two empty tanks
 - Two tanks full of waste
 - One tank empty for single LAW contractor
- Date tanks are no longer available for use by the PHMC ("Hands-Off" Date)
- Required Waste Composition
 - Envelope A
 - "Near" Envelope A

The customer (RL) further defined another parameter that they wanted included:

- Saltwell Liquid Retrieval Sequence
 - As defined in OWVP Rev. 23 (Strode and Boyles1997)
 - Delayed an additional three years

The following sections define fully what these parameters are, the gambit of alternatives that could be modeled, and how/why some alternatives were excluded from consideration.

2.1 ALTERNATIVES GENERATION PROCESS

As stated previously, the parameters that would be varied for this alternatives generation and analysis (AGA) have been defined. Figure 2.1-1 illustrates the full range of alternatives that could be considered. The following sections define each parameter.

2.1.1 Tank Composition

As can be seen, tank composition is only viable if the tanks are turned over with waste in them. The two possible states for this parameter are the composition of the waste in the feed tanks already meet the Envelope A requirements or it does not. However it is assumed that if the waste does not meet Envelope A that it will be "near" to Envelope A.

Figure 2.1-1. Generation of Alternatives.

2.1.2 Fill Status

Fill status is the crux of the entire AGA. The "Two Empty" state is both tanks empty at the given date. The "Two Full State" is both tanks containing waste at the "hands-off" date having the composition as defined by Tank Composition. The "One Empty" state is for a special case in which there is only one contractor. In this case, only one tank (241-AP-108) will need to be empty by the specified "hands-off" date.

2.1.3 "Hands-Off" Date

The "hands-off" date is the date at which the PHMC will no longer use the vendor feed tank(s) for waste storage. Only one date is under consideration at this time (4/1/1999). This date was specified by the customer (RL) as its preferred date. The second "date" (baseline) is the same dates as were used in the TWRSO&UP (241-AP-106 - 10/2000, 241-AP-108 - 4/2001). These dates will only be used to develop "baseline" cases to compare against the early "hands-off" cases.

2.1.4 Saltwell Liquid Retrieval Schedule

Saltwell liquid is removed from the SSTs in order to stabilize them to reduce the impact of leaks. The TWRSO&UP used the "Base" saltwell liquid retrieval schedule (identical to what was modeled in OWVP Rev. 23 [Strode and Boyles 1997]) which completes in fiscal year (FY) 2000. The "Reduced" saltwell liquid retrieval schedule does not complete until FY 2003. The schedules for these two parameters are given in Table 2.1-1. Only the "Base" schedule will be used with the "Baseline" "hands-off" date since this date was defined by RL as only to be used for defining the baseline cases.

Table 2.1-1. Saltwell Liquid Retrieval Schedules.
(Volume in Kgals)

Fiscal year	Base schedule					Reduced schedule				
	200 East		200 West		Total	200 East		200 West		Total
	DN	DC	DN	DC		DN	DC	DN	DC	
1997	71	84	285	0	440	23	0	140	0	163
1998	314	546	1,592	72	2,524	28	203	140	0	371
1999	6	226	1,016	585	1,833	324	277	318	0	919
2000	0	56	273	190	519	33	331	1,084	37	1,485
2001						0	85	1,245	48	1,378
2002						0	16	226	604	846
2003						0	0	0	158	158
Total	391	912	3,166	847	5,316	408	912	3,153	847	5,320

DC = Dilute complexed

DN = Dilute non-complexed.

There are slight differences between the overall totals for some of the waste originations, but they are minor and will not affect the results of this study.

2.2 SCREENING OF ALTERNATIVES

Figure 2.2-1 presents the parameters selected for further study and the rejected parameters.

Figure 2.2-1. Screening of Alternatives.

The “Two Full” state was removed at the request of the customer (RL). It was not believed that this is a viable option based upon impacts it would have on project schedules and contract requirements. This may need to be considered, however, as a “fallback” option. If this study demonstrates that the PHMC is not able to relinquish use of the tanks at the desired date, attempts may be made to obtain a date at which it is possible. If no possible date exists, then the only other option is to turn the tanks over full.

Since the “Two Full” state is removed then the composition parameters, which are only applicable to the “Two Full” state, can also be dropped.

This leaves a possibility for eight different cases. However as was stated in Section 2.1.4, the “Baseline” “hands-off date” will only be used for the “Base” saltwell liquid retrieval schedule. Therefore, two additional cases can be dropped leaving a total of six cases: two baseline cases and four alternative cases. All six cases are defined in Table 2.2-1.

Table 2.2-1. Definition of Alternatives Under Consideration.

Case	Fill status	"Hands-off" date	Saltwell liquid retrieval schedule
1	Both Tanks Empty	Baseline ^a	Base
2	Both Tanks Empty	4/1/1999	Base
3	Both Tanks Empty	4/1/1999	Reduced
4	One Tank Empty	Baseline ^a	Base
5	One Tank Empty	4/1/1999	Base
6	One Tank Empty	4/1/1999	Reduced

^aBaseline dates are 10/2000 for tank 241-AP-106 and 4/2001 for tank 241-AP-108.

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3.0 MEASURES

The measures used for evaluation of the cases defined in Section 2.2 were decided upon via a meeting with the customer (RL) and are given below:

- Synopsis of Model Changes
- Tank Transfer History
- Evaporator Schedule
- Vendor Feed Tank Fill History (241-AP-108 and possibly 241-AP-106)
- PHMC Staging Tank Fill History (241-AP-102 and 241-AP-104)
- DST System Fill History
- Phase 2 SST Retrieval.

The following sections give the definitions of the measures and the format in which the measures will be presented.

3.1 SYNOPSIS OF MODEL CHANGES

The different cases will be modeled using the most current Hanford Tank Waste Operation Simulator (HTWOS). HTWOS is a dynamic computer simulation (programmed in G2¹) that models the operation of the tank farm systems within the 200 East and West areas from present day until the conclusion of Phase 2 operations. HTWOS simulates operational waste volume projections, low level feed staging, high level feed staging, Phase 1 single-shell tank (SST) retrieval, and Phase 2 SST retrieval providing a common assumption basis for all activities, as well as showing operational impacts of each activity on the other activities. Its primary purpose is to support the TWRSO&UP.

The output from this model was employed to obtain all the data used for the comparisons (Section 4.0). Descriptions of any alterations made to the HTWOS since the version used for the TWRSO&UP Revision 0A are given in Section 4.1. These changes include changes made to the overall model (regardless of case) and specific changes relating to the scenario selected (one- or two-contractor). Specific changes made for each case will be included in this section.

3.2 WASTE TRANSFER HISTORY

Waste transfer history will include every transfer that occurs in the model. This includes tank to tank transfers, evaporator runs, and incoming waste from waste generators. The data will include the tank/waste source transferred from, tank transferred to, starting transfer date, ending transfer date, liquid volume transferred, and solid volume transferred. Important transfers pertaining to Phase 1 HLW and LAW feed staging will be broken out and listed on separate

¹G2 is a registered trademark of Gensym Corporation, Cambridge, MA.

tables. These data show delays in staging transfers (if any), complexity of bootstrap transfers, density of tank to tank transfers, and evaporator usage.

3.3 EVAPORATOR SCHEDULE

Evaporator schedule includes every evaporator campaign. This data shows how much volume is removed from the tank system over time and the modeled usage of the evaporator. This data will be presented in a tabular form containing the number of evaporator campaigns per calendar year and the volume evaporated. More elaborate descriptions of evaporator operations can be found in the Waste Transfer History tables.

3.4 VENDOR FEED TANK FILL HISTORY

This measure presents the fill volume of the vendor feed tanks over time. Depending on the alternative, this measure shows either when the tanks become empty and are turned over or shows the estimated usage of the tanks by operations during upgrade. This information will be presented as a graphic.

3.5 PROJECT HANFORD MANAGEMENT CONTRACTOR STAGING TANKS FILL HISTORY

This measure presents the fill volume of the staging tanks over time. Its purpose is to show the estimated usage of these tanks by operations during the PHMC Team's upgrade operations. This information will be presented as a graphic.

3.6 DOUBLE-SHELL TANK SYSTEM FILL HISTORY

This measure presents the total volume of the DST system over time plus the calculated "free" space over time. The free space is the unfilled tank space not belonging to tanks used for Phase 1 HLW or LAW operations. This information will be presented as a graphic.

3.7 PHASE 2 SINGLE-SHELL TANK RETRIEVAL

This measure presents the total amount of Phase 2 SST waste retrieved (retrieved volumes), number of SSTs in which retrieval is completed, and number of SSTs that are being retrieved through Phase 1. This information will be presented in a tabular form. More detailed information can be found in the Waste Transfer History tables.

4.0 EVALUATION OF CASES

This section individually evaluates each of the six cases previously defined in Section 2.0 (Section 5.0 will compare the alternatives to one another). As defined in Section 3.0, the evaluation criteria will include the following:

- Synopsis of Model Changes
- Waste Transfer History
- Evaporator Schedule
- Vendor Feed Tank Fill History (241-AP-108 and possibly 241-AP-106)
- PHMC Staging Tank Fill History (241-AP-102 and 241-AP-104)
- Total DST System Fill History
- Phase 2 SST Retrieval.

Overall model changes (i.e., changes made to HTWOS since the release of the TWRSO&UP) will be defined in Section 4.1.1. These changes are applicable to all alternatives. Changes pertinent to the two-contractor cases or the one-contractor cases will be defined in Sections 4.1.2 and 4.1.3 respectively.

Section 4.1.4 describes the technical approach that was taken to evaluate the alternatives and Section 4.1.5 lists several important modeling assumptions. The modeling assumptions are identical to what was used in the TWRSO&UP, but are important to understand when examining the cases.

4.1 MODEL UPDATES

This section describes changes to the baseline model (TWRSO&UP) since the release of the TWRSO&UP. It is divided into three parts. The first part deals with changes to the overall model that apply to both the two- and one-contractor scenarios, the second part deals with changes specific only to the two-contractor cases (Cases 1-3), and the third describes changes pertinent only to the one-contractor cases (Cases 4-6).

4.1.1 Overall Changes

The changes described in this section came about because of the continuing effort to maintain/update/refine the HTWOS model so that it better simulates what is expected to occur in tank farms in the future. These changes will be further documented in and incorporated into the next revision of the TWRSO&UP.

The previous version of HTWOS lumped similar OWVP transfers together. For example, if 1,000 L (204 gal) of saltwell liquid were added to 241-AN-101 every month for a year, this would be represented as 12,000 L (3,170 gal) being added at the end of the year. This was done because running the model with all the transfers would have made the overall run time

unmanageable (in excess of 16 hours). However, the model has been updated/refined and now runs times have been reduced to 1 to 2 hours even with monthly transfers.

Evaporator campaigns are now generated on an as-needed basis. The previous HTWOS had evaporator campaigns running every six months whether they were necessary or not. Now campaigns are initiated when the dilute receiver tank (DRT) has 3,000 m³ (800 Kgal) of liquid or a total volume of 3,800 m³ (1 Mgal). The six month sampling period is still present, however the sampling period is based on the last transfer into the DRT. What this means is if the DRT contains a "batch," but it cannot be transferred into the evaporator feed tank (the evaporator is running, the evaporator feed tank already contains a batch that is sampling, etc.) then the sampling time is assumed to start at that date as long as no other additions are made to the DRT. It is important to note that these "smart" evaporator campaigns are only initiated after the date the tanks are turned over to the PCs. Until then the evaporator campaigns given in the OWVP are used.

The "smart" evaporator campaigns also cycle the waste through the evaporator. The previous HTWOS would "evaporate" the feed until the bottoms achieved a SpG of 1.4. This would occur in one pass with some removals being in excess of 90 percent. After discussions with evaporator employees, it was found that the evaporator operates based on a constant feed rate, holdup time, and heat input and that in order to achieve a desired bottoms SpG several passes were sometimes necessary. Therefore a maximum boiloff rate of 189 L (50 gal/min) (based on a feed rate of 530 L/min [140 gal/min]) was used. If the bottoms did not achieve the desired SpG after one pass, it would be pumped back to the evaporator feed tank and (after a 14 day delay) re-evaporated. This cycle would continue until the bottoms achieved the SpG desired or the bottoms volume was less than 946 m³ (250 Kgal). The importance of this change is it more accurately models operations and it also demonstrates the need for keeping the evaporator bottoms tank empty.

A source of additional HLW feed was added (241-C-104) and the overall processing operations were changed. The additional feed was necessary to prove that the PHMC could provide the maximum feed order quantity and the change in operations was necessary to allow for the retrieval of 241-C-104. The partial retrieval of 241-C-104 (approximately 20 percent) into 241-AY-102 is initiated in 8/2004. Before this, retrieved 241-C-106 and mobilized 241-AY-102 are transferred to 241-AZ-101 to be pretreated. This transfer is done after the waste in 241-AZ-101 is processed. After the waste in 241-AZ-102 is processed, the retrieved 241-C-104 is transferred into it and pretreated.

The storage of SST dilute complexed (DC) and dilute non-complexed (DN) saltwell liquid is not necessarily segregated for all cases. The OWVP Rev. 23 used 241-AP-106 as the DN east area receiver. However, the removal of this tank from the PHMC's usable volume restricts the volume available for storage and may therefore cause mixing of DC and DN.

4.1.2 Model Changes for the Two-Contractor Cases

A twelfth LAW feed batch was added. This batch was added so that it could be shown that the PHMC could provide the PCs with the minimum feed order quantity of Envelope A and the maximum feed order quantity. This batch consists of 241-AP-101, a fraction of 241-AW-104, and shim caustic. This batch is inserted as batch 5.

Tank 241-AP-107 is used as the east area DRT until 241-AN-105 is emptied. The previous version used 241-AW-105 as the DRT, but the solids slurry volume in 241-AW-105 reduces the usable volume of the tank. This causes more "smart" evaporator campaigns to be initiated and therefore underestimates the rate at which volume could be freed up within the DST system.

4.1.3 Model Changes for the One-Contractor Cases

Since there is only one contractor, the amount of feed that needs to be retrieved and processed is cut in half. Therefore a different feed order must be used. The DST feed order is changed to (Table 4.1-1):

Table 4.1-1. Double-Shell Tank Processing Order for One-Contractor Cases.

Tank From	Envelope	Percent Retrieved
241-AN-105	A	100% Solids and Liquids
241-AN-104	A	100% Solids and Liquids
241-AW-101	A	100% Solids and Liquids
241-AY-101	B	~120 MT Na
241-AN-107	C	100% Liquids
241-AN-102	C	~50% Liquids
241-AN-103	A	100% Solids and Liquids

This sequence uses tanks that are also slated to be retrieved for the two-contractor cases. However, unlike the two-contractor cases, all of the tanks are full as of today (their Phase 1B compositions are set) and no cross-site transfers are necessary. The 50 percent 241-AN-102 batch was added to demonstrate that the PHMC could supply the contractor with the maximum order quantity of feed. Further work is required to refine this sequence to the extent that the two-contractor scenario has been (change order, impact on schedules, etc), but that is outside the scope of this study. For all intents and purposes, this sequence is adequate.

The following bullets define changes to the tank allocation used in the TWRSO&UP HTWOS:

- Tank 241-AP-106 is used as the DRT throughout the entire mission. Since 241-AP-106 is not used for Phase 1 activities, there is no need to switch it from its current usage.
- Tank 241-AP-108 serves as the only PC feed tank.
- Tank 241-AN-105 stores the waste that is in 241-AP-107. In the two-contractor cases, 241-AN-104 stores 241-AP-107. Tank 241-AN-105 is used because 241-AN-104 is not empty by the time the PCs begin processing.
- Tank 241-AN-104 will serve as the SE quadrant receipt tank in support of Phase 2 SST retrieval after AW-101 is retrieved. Tank 241-AN-104 is needed to serve as the evaporator bottoms accumulation tank until 241-AW-101 is free due to DST space limitations. In the two-contractor case, 241-AN-103 serves as the SE quadrant receipt tank. Tank 241-AN-103 could be used as the SE quadrant receipt tank, but it is not empty until near the end of the mission. In order for the two scenarios to be comparable in Phase 2, SST retrieval effort was made to allocate space for SE quadrant retrieval as early as possible.
- Tank 241-AN-103 will serve as the transfer-site receiver tank after it is retrieved. In the two-contractor case, tank 241-AN-102 serves in this role. Tank 241-AN-103 is used because 241-AN-102 is not retrieved completely in this scenario and since 241-AN-103 is retrieved fully (solids and liquids) it was deemed to be more appropriate than 241-AN-107.

4.1.4 Technical Approach for Evaluation

Whenever possible, the HTWOS model was employed to initiate feed staging and pretreatment transfers and/or evaporator campaigns. However not all waste transfers could be modeled in this fashion. Operational tank-to-tank transfers that were made outside of OWVP Rev. 23 (all tank-to-tank transfers that occur after the date 241-AP-108 and 241-AP-106 are turned over or after the first change to the saltwell liquid retrieval sequence) had to be programmed manually. This was accomplished by running the model, determining where the volume or timing pinch is, and altering the waste transfer sequence. This procedure was iterated over until the model achieved the desired results. Integrating OWVP and HTWOS completely (as is recommended in Section 7.0) will eventually alleviate this bothersome task, but at the present time, this iteration is necessary.

Also the timing and volume of all waste generator streams were kept equal to what is in the OWVP Rev. 23 (except for the reduced saltwell liquid retrieval), but for some the destinations had to be altered. East area waste additions that are not originally routed to 241-AN-101 are now routed to the DRT as are cross-site transfers. Also, completed evaporator bottoms are routed to a

single DST (241-AW-101 for two-contractor scenario and 241-AN-104 or 241-AW-101 for one) for storage.

4.1.5 Modeling Assumptions of Note

The modeling assumptions below are identical to what was used in the TWRSO&UP, but are important to note when comparing alternatives:

- All cases assume HLW operations
- Phase 1 LAW facilities process waste at 2 MT/day (both two- and one-contractor scenarios)
- The Phase 1 HLW facility processes waste at 0.164 MT non-volatile oxides less Na and Si/day
- Qualifying/sampling times are equal to 114 days for LAW and 315 days for HLW
- Evaporator bottoms are spec'ed to a SpG of 1.4.

4.2 CASE 1

This case is the basecase alternative for the two-contractor scenario. It is necessary to define a new basecase that includes all the changes defined in Sections 4.1.1 and 4.1.2.

4.2.1 Synopsis of Model Changes

Other than the changes outlined in Sections 4.1.1 and 4.1.2, the assumptions for this case match what was given in the TWRSO&UP.

4.2.2 Waste Transfer History

The complete list of tank/waste transfers, the LAW specific transfers, and the HLW specific transfers are included in Appendix A. Table 4.2-1 and Table 4.2-2 below give the schedule for LAW and HLW feed delivery from the PC feed tanks to the facilities. As can be seen in Table 4.2-1 and 4.2-2, no delay in feed delivery is encountered. Small differences between pump end and the next pump start account for the filling of the feed tanks.

Table 4.2-1. Low-Activity Waste Feed Delivery Schedule for Case 1.

	Envelope	Pump Start	Pump End
Contractor 1 To Process	A	6/1/02	12/31/05
	B	1/2/06	3/11/06
	C	3/12/06	5/25/09
Contractor 2 To Process	A	6/1/02	3/6/06
	B	3/8/06	5/14/06
	C	5/15/06	6/1/09

Table 4.2-2. High-Level Waste Feed Delivery Schedule for Case 1.

	Envelope	Pump Start	Pump End
High-level waste contractor feed tank to process	D	6/1/02	2/21/03
	D	2/22/03	11/14/03
	D	11/14/03	8/7/04
	D	8/8/04	5/2/05
	D	5/2/05	11/16/05
	D	11/17/05	6/2/06
	D	6/3/06	12/18/06
	D	12/18/06	7/4/07
	D	7/5/07	1/18/08
	D	1/19/08	12/22/08
	D	12/22/08	11/25/09

4.2.3 Evaporator Schedule

Table 4.2-3 defines the number of evaporator campaigns per year and the total amount removed from the DST system. More elaborate details on evaporator campaigns can be found in the tank transfer table in Appendix A.

Table 4.2-3. Evaporator Usage by Year for Case 1.

Calendar year	Number of campaigns	Volume removed	
		L	gal
1997	2	4,755,650	1,256,300
1998	3	8,034,977	2,122,600
1999	4	6,691,023	1,767,568
2000	2	6,562,441	1,733,600
2001	2	3,278,949	866,200
2002	1	3,111,633	822,000
2003	0	0	0
2004	2	6,167,636	1,629,305
2005	1	2,879,097	760,571
2006	2	3,785,820	1,000,100
2007	1	4,078,813	1,077,500
2008	0	0	0
2009	0	0	0
2010	1	2,979,142	787,000
2011	0	0	0
Total	21	52,325,181	13,822,743

4.2.4 Vendor Feed Tank Fill History

The following figures (4.2-1 and 4.2-2) illustrate the fill status of the vendor feed tanks (tanks 241-AP-106 and 241-AP-108 respectively). As can be seen from the figures, 241-AP-106 and 241-AP-108 continue to be used by the PHMC nearly up until the delivery of the first feed batch.

4.2.5 PHMC Staging Tank Fill History

The following figures (4.2-3 and 4.2-4) illustrate the fill status of the PHMC staging tanks (tanks 241-AP-102 and 241-AP-104 respectively). Tank 241-AP-102 is used for waste storage until 1/2000 and AP-104 until 6/2000, after which time they remain empty. They are not slated to receive waste from waste generators like 241-AP-106 and 241-AP-108.

Figure 4.2-1. Fill History of 241-AP-106 for Case 1.

Figure 4.2-2. Fill History of 241-AP-108 for Case 1.

Figure 4.2-3. Fill History of 241-AP-102 for Case 1.

Figure 4.2-4. Fill History for 241-AP-104 for Case 1.

4.2.6 Double-Shell Tank System Fill History

Figure 4.2-5 shows the total volume of the DST system as well as the amount of “free” volume in the DST system through Phase 1. “Free” volume is defined as headspace above tanks that are not used for Phase 1 activities. This excludes tanks 241-AP-102, -104, -106, and -108 after initiation of Phase 1 LAW retrieval; tanks 241-AZ-101, -102 and 241-AY-102; 241-AP-107 after the start of Phase 1 processing; and all DSTs that will be used for Phase 1 LAW feed and in the feed staging activities. After a DST has been retrieved for Phase 1 LAW activities and it is not used for other retrieval operations, its volume becomes “free.” Total volume and “free” volume are shown with and without the impact of SST retrieval.

Figure 4.2-5. Total and Free Volume History for Case 1.

As can be seen in the figure, the “free” volume becomes extremely tight from 10/1999 until approximately 10/2002. After 10/2002 Phase 1 processing exceeds the influx of new DST waste (saltwell liquid [SWL], HLW pretreatment, waste generators).

4.2.7 Phase 2 Single-Shell Tank Retrieval

Table 4.2-4 shows the status of SST retrieval for Case 1 at 10/2011 (the start of Phase 2 LAW operations).

Table 4.2-4. Phase 2 Single-Shell Tank Retrieval Status for Case 1.

	Number of single-shell tanks	Volume retrieved L (Mgal)
Retrieval Completed	36	35.2 (9.3)
Retrieval Initiated	10	15.5 (4.1)
Total	46	50.7 (13.4)

No attempt was made to optimize the retrieval sequence. The sequence used was the base case outlined in the TWRSO&UP.

4.3 CASE 2

This case determines what effect emptying the PC tanks (241-AP-106 and 241-AP-108) by 4/1/1999 has on the overall system for the two-contractor scenario.

4.3.1 Synopsis of Model Changes

Major changes, other than those outlined in Sections 4.1.1 and 4.1.2, include delaying Phase 1 retrieval activities until 1/2002 (Case 1 - 3/2001) and using 241-AP-104 and 241-AP-103 to stage evaporator waste (until 7/2001 and 10/2001 respectively).

4.3.2 Waste Transfer History

The complete list of tank/waste transfers, the LAW specific transfers, and the HLW specific transfers are included in Appendix A. Tables 4.3-1 and 4.3-2 give the schedule for LAW and HLW feed delivery from the PC staging tanks to the facilities. As can be seen in Tables 4.3-1 and 4.3-2, no delay in feed delivery is encountered. Small differences between pump end and the next pump start account for the filling of the feed tanks.

Table 4.3-1. Low-Activity Waste Feed Delivery Schedule for Case 2.

	Envelope	Pump Start	Pump End
Contractor 1 to process	A	6/1/02	11/30/05
	B	12/2/05	2/8/06
	C	2/9/06	5/20/09
Contractor 2 to process	A	6/1/02	1/27/06
	B	1/28/06	4/7/06
	C	4/8/06	5/21/09

Table 4.3-2. High-Level Waste Feed Delivery Schedule for Case 2.

	Envelope	Pump start	Pump end
High-level waste contractor feed tank to process	D	6/1/02	2/21/03
	D	2/21/03	11/14/03
	D	11/14/03	8/7/04
	D	8/8/04	5/2/05
	D	5/2/05	11/16/05
	D	11/17/05	6/2/06
	D	6/3/06	12/18/06
	D	12/18/06	7/4/07
	D	7/5/07	1/18/08
	D	1/19/08	12/22/08
	D	12/22/08	11/25/09

4.3.3 Evaporator Schedule

Table 4.3-3 defines the number of evaporator campaigns per year and the total amount removed from the DST system. More elaborate details on evaporator campaigns can be found in the tank transfer table in Appendix A.

Table 4.3-3. Evaporator Usage by Year for Case 2.

Calendar year	Number of campaigns	Volume removed	
		L	gal
1997	2	4,755,650	1,256,300
1998	3	8,034,977	2,122,600
1999	2	4,347,849	1,148,571
2000	2	3,878,185	1,024,500
2001	3	5,873,783	1,551,677
2002	1	2,346,595	619,900
2003	1	3,154,719	833,382
2004	3	6,790,160	1,793,757
2005	1	4,231,196	1,117,755
2006	2	4,489,155	1,185,900
2007	1	2,189,878	578,500
2008	1	2,297,763	607,000
2009	0	0	0
2010	1	2,734,661	722,415
2011	0	0	0
	23	55,124,570	14,562,258

4.4.4 Vendor Feed Tank Fill History

The following figures (4.3-1 and 4.3-2) illustrate the fill status of the vendor feed tanks (tanks 241-AP-106 and 241-AP-108 respectively). As can be seen from the figures, 241-AP-106 and 241-AP-108 are empty by 4/1999. The small addition prior to 1/2002 is flush water.

4.3.5 PHMC Staging Tank Fill History

The following figures (4.3-3 and 4.3-4) illustrate the fill status of the PHMC staging tanks (tanks AP-102 and AP-104 respectively). AP-102 is used for waste storage until 10/2001 and AP-104 until 7/2001, after which they are quickly flushed and then immediately receive the first batch of LAW feed. Waste transfer operations are very tight for this case.

Figure 4.3-1. Fill History of 241-AP-106 for Case 2.

Figure 4.3-2. Fill History of 241-AP-108 for Case 2.

Figure 4.3-3. Fill History of 241-AP-102 for Case 2.

Figure 4.3-4. Fill History of 241-AP-104 for Case 2.

4.3.6 Total Double-Shell Tank System Fill History

Figure 4.3-5 shows the total volume of the DST system as well as the amount of “free” volume in the DST system through Phase 1. “Free” volume is defined as headspace above tanks that are not used for Phase 1 activities. This excludes tanks 241-AP-102, -104, -106, and -108 after initiation of Phase 1 LAW retrieval; tanks 241-AZ-101, -102 and 241-AY-102; 241-AP-107 after the start of Phase 1 processing; and all DSTs that will be used for Phase 1 LAW feed and in the feed staging activities. After a DST has been retrieved for Phase 1 LAW activities and it is not used for other retrieval operations, its volume becomes “free.” Total volume and “free” volume are shown with and without the impact of SST retrieval.

As can be seen in the figure, the “free” volume becomes extremely tight from 10/1998 until approximately 1/2003. After 1/2003 Phase 1 processing exceeds the influx of new DST waste (SWL, HLW pretreatment, waste generators).

Figure 4.3-5. Total and Free Volume History for Case 2.

4.3.7 Phase 2 Single-Shell Tank Retrieval

Table 4.3-4 below shows the status of SST retrieval for Case 2 at 10/2011 (the start of Phase 2 LAW operations). The results are identical to the results for Case 1. This will be examined in Section 5.0.

Table 4.3-4. Phase 2 Single-Shell Tank Retrieval Status for Case 2.

	Number of single-shell tanks	Volume retrieved ML (Mgals)
Retrieval Completed	36	35.2 (9.3)
Retrieval Initiated	10	15.5 (4.1)
Total	46	50.7 (13.4)

4.4 CASE 3

This case determines what effects emptying the PC tanks (241-AP-106 and 241-AP-108) by 4/1/1999 and delaying the saltwell liquid retrieval operations (until FY 2003) has on the DST system for the two-contractor scenario.

4.4.1 Synopsis of Model Changes

Major changes, other than those outlined in Section 4.1.1 and 4.1.2, include delaying Phase 1 retrieval activities until 8/2001 (Case 1 - 3/2001) and using 241-AP-104 and 241-AP-102 to stage evaporator waste (until 5/2001 and 2/2001 respectively). The delay in Phase 1 retrieval activities is not as great as for Case 2 because the effects of the reduced saltwell liquid retrieval schedule appear later in the simulation.

4.4.2 Waste Transfer History

The complete list of tank/waste transfers, the LAW specific transfers, and the HLW specific transfers are included in Appendix A. Table 4.4-1 and Table 4.4-2 below give the schedule for LAW and HLW feed delivery from the PC staging tanks to the facilities. As can be seen in Table 4.4-1 and 4.4-2, no delay in feed delivery is encountered. Small differences between pump end and the next pump start account for the filling of the feed tanks.

Table 4.4-1. Low-Activity Waste Feed Delivery Schedule for Case 3.

	Envelope	Pump start	Pump end
Contractor 1 To Process	A	6/1/02	12/9/05
	B	12/11/05	2/16/06
	C	2/17/06	5/25/09
Contractor 2 To Process	A	6/1/02	2/6/06
	B	2/8/06	4/16/06
	C	4/17/06	5/18/09

Table 4.4-2. High-Level Waste Feed Delivery Schedule for Case 3.

	Envelope	Pump start	Pump end
High-level waste contractor feed tank to process	D	6/1/02	2/21/03
	D	2/22/03	11/14/03
	D	11/14/03	8/7/04
	D	8/8/04	5/2/05
	D	5/2/05	11/16/05
	D	11/17/05	6/2/06
	D	6/3/06	12/18/06
	D	12/18/06	7/4/07
	D	7/5/07	1/18/08
	D	1/19/08	12/22/08
	D	12/22/08	11/25/09

4.4.3 Evaporator Schedule

Table 4.4-3 below defines the number of evaporator campaigns per year and the total amount removed from the DST system. More elaborate details on evaporator campaigns can be found in the tank transfer table in Appendix A.

Table 4.4-3. Evaporator Usage by Year for Case 3.

Calendar year	Number of campaigns	Volume removed	
		L	gal
1997	2	4,755,650	1,256,300
1998	2	4,893,440	1,292,700
1999	2	3,765,757	994,800
2000	1	2,145,340	566,734
2001	3	6,176,326	1,631,600
2002	2	4,647,972	1,227,855
2003	2	5,268,199	1,391,700
2004	2	5,225,936	1,380,536
2005	2	4,701,666	1,242,039
2006	1	2,833,988	748,654
2007	1	3,177,121	839,300
2008	1	2,793,656	738,000
2009	0	0	0
2010	0	0	0
2011	1	3,160,086	834,800
	22	53,545,135	14,145,018

4.4.4 Vendor Feed Tank Fill History

The following figures (4.4-1 and 4.4-2) illustrate the fill status of the vendor feed tanks (tanks 241-AP-106 and 241-AP-108 respectively). As can be seen from the figures, 241-AP-106 and 241-AP-108 are empty by 4/1999. The small additions around 7/2001 are flush water.

4.4.5 PHMC Staging Tank Fill History

The following figures (4.4-3 and 4.4-4) illustrate the fill status of the PHMC staging tanks (tanks 241-AP-102 and 241-AP-104 respectively). Tank 241-AP-102 is used for waste storage until 10/2001 and 241-AP-104 until 7/2001, after which they are quickly flushed and then immediately receive the first batch of LAW feed. Waste transfer operations are very tight for this case.

Figure 4.4-1. Fill History of 241-AP-106 for Case 3.

Figure 4.4-2. Fill History of 241-AP-108 for Case 3.

Figure 4.4-3. Fill History of 241-AP-102 for Case 3.

Figure 4.4-4. Fill History of 241-AP-104 for Case 3.

4.4.6 Total Double-Shell Tank System Fill History

Figure 4.4-5 shows the total volume of the DST system as well as the amount of “free” volume in the DST system through Phase 1. “Free” volume is defined as headspace above tanks that are not used for Phase 1 activities. This excludes tanks 241-AP-102,-104,-106, and -108 after initiation of Phase 1 LAW retrieval; tanks 241-AZ-101, -102 and 241-AY-102; 241-AP-107 after the start of Phase 1 processing; and all DSTs that will be used for Phase 1 LAW feed and in the feed staging activities. After a DST has been retrieved for Phase 1 LAW activities and it is not used for other retrieval operations, its volume becomes “free.” Total volume and “free” volume are shown with and without the impact of SST retrieval.

As can be seen in the figure, the “free” volume becomes extremely tight from 10/1999 until approximately 1/2004. After 1/2003 Phase 1 processing exceeds the influx of new DST waste (SWL, HLW pretreatment, waste generators).

4.4.7 Phase 2 Single-Shell Tank Retrieval

Table 4.4-4 below shows the status of SST retrieval for the alternative at 10/2011 (the start of Phase 2 LAW operations). The total number of SSTs retrieved from is greater than alternatives 1 and 2. This will be addressed in Section 5.0.

Table 4.4-4. Phase 2 Single-Shell Tank Retrieval Status for Case 3.

	Number of single-shell tanks	Volume retrieved ML (Mgal)
Retrieval Completed	38	39.0 (10.3)
Retrieval Initiated	10	11.4 (3.0)
Total	48	50.4 (13.3)

Figure 4.4-5. Total and Free Volume History for Case 3.

4.5 CASE 4

This case is the basecase for the one-contractor alternatives.

4.5.1 Synopsis of Model Changes

No major changes, other than those outlined in Section 4.1.1 and 4.1.3, were made to the model for this case.

4.5.2 Waste Transfer History

The complete list of tank/waste transfers, the LAW specific transfers, and the HLW specific transfers are included in Appendix A. Table 4.5-1 and Table 4.5-2 below give the schedule for LAW and HLW feed delivery from the PC staging tanks to the facilities.

Table 4.5-1. Low-Activity Waste Feed Delivery Schedule for Case 4.

	Envelope	Pump start	Pump end
Contractor 1 to process	A	6/1/02	6/12/06
	B	6/14/06	8/12/06
	C	8/14/06	4/10/08
	A	4/14/08	11/28/09

Table 4.5-2. High-Level Waste Feed Delivery Schedule for Case 4.

	Envelope	Pump start	Pump end
High-level waste contractor feed tank to process	D	6/1/02	2/21/03
	D	2/22/03	11/14/03
	D	11/14/03	8/7/04
	D	8/8/04	5/2/05
	D	5/2/05	11/16/05
	D	11/17/05	6/2/06
	D	6/3/06	12/18/06
	D	12/18/06	7/4/07
	D	7/5/07	1/18/08
	D	1/19/08	12/22/08
	D	12/22/08	11/25/09

As can be seen in Table 4.5-1 and 4.5-2, no delay in feed delivery is encountered. Small differences between pump end and the next pump start account for the filling of the feed tanks. For LAW operations, the switch from Envelope C to A takes 4 days because of the large volume involved. For the previous envelope switches, small volumes (approximately 120 MT worth of Na) were transferred.

4.5.3 Evaporator Schedule

Table 4.5-3 below defines the number of evaporator campaigns per year and the total amount removed from the DST system. More elaborate details on evaporator campaigns can be found in the tank transfer table in Appendix A.

Table 4.5-3. Evaporator Usage by Year for Case 4.

Calendar year	Number of campaigns	Volume removed	
		L	gal
1997	2	4,755,650	1,256,300
1998	3	8,034,977	2,122,600
1999	4	6,691,023	1,767,568
2000	2	6,562,441	1,733,600
2001	1	2,748,987	726,200
2002	1	2,937,502	776,000
2003	1	2,795,427	738,468
2004	1	2,961,797	782,418
2005	2	5,328,766	1,407,700
2006	1	1,317,334	348,000
2007	1	3,911,024	1,033,175
2008	0	0	0
2009	1	2,356,059	622,400
2010	0	0	0
2011	1	2,776,724	733,527
	21	53,177,711	14,047,956

4.5.4 Vendor Feed Tank Fill History

The following figure (4.5-1) illustrates the fill status of the vendor feed tank (tank 241-AP-108). As in Case 1, 241-AP-108 continues to be used to waste storage operations up until delivery of the first feed batch to 241-AP-102 and 241-AP-104. The small spike after 241-AP-108 is emptied is flush water.

Figure 4.5-1. Fill History of 241-AP-108 for Case 4.

4.5.5 PHMC Staging Tank Fill History

The following figures (4.5-2 and 4.5-3) illustrate the fill status of the PHMC staging tanks (tanks 241-AP-102 and 241-AP-104 respectively). Tank 241-AP-104 is used for waste storage until 6/2000; 241-AP-102 is empty 10/1999.

4.5.6 Total Double-Shell Tank System Fill History

Figure 4.5-4 shows the total volume of the DST system as well as the amount of “free” volume in the DST system through Phase 1. “Free” volume is defined as headspace above tanks that are not used for Phase 1 activities. This excludes tanks 241-AP-102, -104, and -108 after initiation of Phase 1 LAW retrieval; tanks 241-AZ-101, -102 and 241-AY-102; 241-AP-107 after the start of Phase 1 processing; and all DSTs that will be used for Phase 1 LAW feed and in the feed staging activities. After a DST has been retrieved for Phase 1 LAW activities and it is not used for other retrieval operations, its volume becomes “free.” Total volume and “free” volume are shown with and without the impact of SST retrieval.

Figure 4.5-2. Fill History of 241-AP-102 for Case 4.

Figure 4.5-3. Fill History of 241-AP-104 for Case 4.

Figure 4.5-4. Total and Free Volume for Case 4.

As can be seen in the figure, the “free” volume becomes extremely tight from 10/1999 until approximately 1/2002. After 1/2002 Phase 1 processing exceeds the influx of new DST waste (SWL, HLW pretreatment, waste generators).

4.5.7 Phase 2 Single-Shell Tank Retrieval

Table 4.5-4 below shows the status of SST retrieval for the alternative at 10/2011 (the start of Phase 2 LAW operations). As is expected, the number and volume of SSTs retrieved is quite smaller than all of the two-contractor cases (Cases 1-3).

Table 4.5-4. Phase 2 Single-Shell Tank Retrieval Status for Case 4.

	Number of single-shell tanks	Volume retrieved ML (Mgals)
Retrieval Completed	27	30.3 (8.0)
Retrieval Initiated	10	7.9 (2.1)
Total	37	38.2 (10.1)

4.6 CASE 5

This case is the one-contractor, early “hands-off” (4/1999 - 241-AP-108 only) case.

4.6.1 Synopsis of Model Changes

Major changes, other than those outlined in Section 4.1.1 and 4.1.3, include staging waste to the evaporator from 241-AP-103 (5/2000), 241-AP-107 (7/2000), and 241-AW-105 (7/2001). Also the start of LAW feed staging operations is delayed until 11/2001 (Case 4 is 3/2001).

4.6.2 Waste Transfer History

The complete list of tank/waste transfers, the LAW specific transfers, and the HLW specific transfers are included in Appendix A. Tables 4.6-1 and 4.6-2 give the schedule for LAW and HLW feed delivery from the PC staging tanks to the facilities.

Table 4.6-1. Low-Activity Waste Feed Delivery Schedule for Case 5.

	Envelope	Pump start	Pump end
Contractor 1 to process	A	6/1/02	6/13/06
	B	6/15/06	8/13/06
	C	8/15/06	4/11/08
	A	4/15/08	11/29/09

Table 4.6-2. High-Level Waste Feed Delivery Schedule for Case 5.

	Envelope	Pump start	Pump end
High-level waste contractor feed tank to process	D	6/1/02	2/21/03
	D	2/22/03	11/14/03
	D	11/14/03	8/9/04
	D	8/10/04	5/6/05
	D	5/7/05	11/21/05
	D	11/21/05	6/7/06
	D	6/8/06	12/22/06
	D	12/23/06	7/9/07
	D	7/9/07	1/23/08
	D	1/24/08	12/26/08
	D	12/27/08	11/29/09

As can be seen in Tables 4.6-1 and 4.6-2, no delay in feed delivery is encountered. Small differences between pump end and the next pump start account for the filling of the feed tanks. For LAW operations, the switch from Envelope C to A takes 4 days because of the large volume

involved. For the previous envelope switches, small volumes (approximately 120 MT worth of Na) were transferred.

4.6.3 Evaporator Schedule

Table 4.6-3 below defines the number of evaporator campaigns per year and the total amount removed from the DST system. More elaborate details on evaporator campaigns can be found in the tank transfer table in Appendix A.

Table 4.6-3. Evaporator Usage by Year for Case 5.

Calendar year	Number of campaigns	Volume removed	
		L	gal
1997	2	4,755,650	1,256,300
1998	3	8,034,977	2,122,600
1999	2	5,200,947	1,373,934
2000	3	4,326,002	1,142,800
2001	3	6,879,287	1,817,301
2002	2	6,394,733	1,689,297
2003	0	0	0
2004	2	5,947,413	1,571,128
2005	1	3,040,050	803,090
2006	1	2,094,641	553,341
2007	1	2,336,374	617,200
2008	1	2,335,996	617,100
2009	0	0	0
2010	1	2,741,955	724,342
2011	0	0	0
	22	54,088,026	14,288,434

4.6.4 Vendor Feed Tank Fill History

The following figure (4.6-1) illustrates the fill status of the vendor feed tank (tank 241-AP-108). Tank 241-AP-108 is empty by 4/1999. The small spike after 241-AP-108 is emptied (11/2001) is flush water.

4.6.5 PHMC Staging Tank Fill History

The following figures (4.6-2 and 4.6-3) illustrate the fill status of the PHMC staging tanks (tanks 241-AP-102 and 241-AP-104 respectively). Tank 241-AP-104 is used for waste storage until 10/2001; 241-AP-102 is empty 5/2000.

Figure 4.6-1. Fill History of 241-AP-108 for Case 5.

Figure 4.6-2. Fill History of 241-AP-102 for Case 5.

Figure 4.6-3. Fill History of 241-AP-104 for Case 5.

4.6.6 Total Double-Shell Tank System Fill History

Figure 4.6-4 shows the total volume of the DST system as well as the amount of “free” volume in the DST system through Phase 1. “Free” volume is defined as headspace above tanks that are not used for Phase 1 activities. This excludes tanks 241-AP-102, -104, and -108 after initiation of Phase 1 LAW retrieval; tanks 241-AZ-101, -102 and 241-AY-102; 241-AP-107 after the start of Phase 1 processing; and all DSTs that will be used for Phase 1 LAW feed and in the feed staging activities. After a DST has been retrieved for Phase 1 LAW activities and it is not used for other retrieval operations, its volume becomes “free.” Total volume and “free” volume are shown with and without the impact of SST retrieval.

Figure 4.6-4. Total and Free Volume History for Case 5.

As can be seen in the figure, the “free” volume becomes extremely tight from 8/2000 until approximately 10/2001. After 10/2001 Phase 1 processing exceeds the influx of new DST waste (SWL, HLW pretreatment, waste generators).

4.6.7 Phase 2 Single-Shell Tank Retrieval

Table 4.6-4 shows the status of SST retrieval for Case 5 at 10/2011 (the start of Phase 2 LAW operations). As is expected, the number and volume of SSTs retrieved is quite smaller than the two-contractor cases (Cases 1-3).

Table 4.6-4. Phase 2 Single-Shell Tank Retrieval Status for Case 5.

	Number of single-shell tanks	Volume retrieved ML (Mgal)
Retrieval Completed	26	22.0 (5.8)
Retrieval Initiated	10	15.5 (4.1)
Total	36	37.5 (9.9)

4.7 CASE 6

This case is the one-contractor, early "hands-off" (4/1999 - 241-AP-108 only), reduced saltwell liquid retrieval schedule case.

4.7.1 Synopsis of Model Changes

Major changes, other than those outlined in Section 4.1.1 and 4.1.3, include staging waste to the evaporator from 241-AP-107 (7/2000 and 5/2001), 241-AP-104 (7/2001), 241-AN-105 (6/2003), and 241-AW-105 (7/2004). Also the start of LAW feed staging operations is delayed until 9/2001 (basecase is 3/2001).

4.7.2 Waste Transfer History

The complete list of tank/waste transfers, the LAW specific transfers, and the HLW specific transfers are included in Appendix A. Table 4.7-1 and Table 4.7-2 below give the schedule for LAW and HLW feed delivery from the PC staging tanks to the facilities.

Table 4.7-1. Low-Activity Waste Feed Delivery Schedule for Case 6.

	Envelope	Pump start	Pump end
Contractor 1 to process	A	6/1/02	6/11/06
	B	6/12/06	8/11/06
	C	8/12/06	4/9/08
	A	4/13/08	11/27/09

Table 4.7-2. High-Level Waste Feed Delivery Schedule for Case 6.

	Envelope	Pump start	Pump end
High-level waste contractor feed tank to process	D	6/1/02	2/21/03
	D	2/22/03	11/14/03
	D	11/14/03	8/7/04
	D	8/8/04	5/2/05
	D	5/2/05	11/16/05
	D	11/17/05	6/2/06
	D	6/3/06	12/18/06
	D	12/18/06	7/4/07
	D	7/5/07	1/18/08
	D	1/19/08	12/22/08
	D	12/22/08	11/25/09

As can be seen in Table 4.7-1 and 4.7-2, no delay in feed delivery is encountered. Small differences between pump end and the next pump start account for the filling of the feed tanks. For LAW operations, the switch from Envelope C to A takes 4 days because of the large volume involved. For the previous envelope switches, small volumes (approximately 120 MT worth of Na) were transferred.

4.7.3 Evaporator Schedule

Table 4.7-3 below defines the number of evaporator campaigns per year and the total amount removed from the DST system. More elaborate details on evaporator campaigns can be found in the tank transfer table in Appendix A.

4.7.4 Vendor Feed Tank Fill History

The following figure (4.7-1) illustrates the fill status of the vendor feed tank (tank 241-AP-108). Tank 241-AP-108 is empty by 4/1999. The small spike after 241-AP-108 is emptied (11/2001) is flush water.

4.7.5 PHMC Staging Tank Fill History

The following figures (4.7-2 and 4.7-3) illustrate the fill status of the PHMC staging tanks (tanks 241-AP-102 and 241-AP-104 respectively). Tanks 241-AP-104 is used for waste storage until 10/2001, 241-AP-102 is empty 5/2000.

Table 4.7-3. Evaporator Usage by Year for Case 6.

Calendar year	Number of campaigns	Volume removed	
		L	gal
1997	2	4,755,650	1,256,300
1998	2	4,893,440	1,292,700
1999	2	3,372,450	890,900
2000	2	4,609,532	1,217,700
2001	3	5,844,759	1,544,010
2002	2	6,172,162	1,630,500
2003	2	3,963,652	1,047,078
2004	3	6,526,984	1,724,233
2005	1	3,590,870	948,600
2006	1	2,337,131	617,400
2007	1	2,335,617	617,000
2008	1	2,336,374	617,200
2009	0	0	0
2010	1	2,742,294	724,432
2011	0	0	0
	23	53,480,913	14,128,053

Figure 4.7-1. Fill History of 241-AP-108 for Case 6.

Figure 4.7-2. Fill History of 241-AP-102 for Case 6.

Figure 4.7-3. Fill History of 241-AP-104 for Case 6.

4.7.6 Total Double-Shell Tank System Fill History

Figure 4.7-4 shows the total volume of the DST system as well as the amount of “free” volume in the DST system through Phase 1. “Free” volume is defined as headspace above tanks that are not used for Phase 1 activities. This excludes tanks 241-AP-102, -104, and -108 after initiation of Phase 1 LAW retrieval; tanks 241-AZ-101, -102 and 241-AY-102; 241-AP-107 after the start of Phase 1 processing; and all DSTs that will be used for Phase 1 LAW feed and in the feed staging activities. After a DST has been retrieved for Phase 1 LAW activities and it is not used for other retrieval operations, its volume becomes “free.” Total volume and “free” volume are shown with and without the impact of SST retrieval.

Figure 4.7-4. Total and Free Volume History for Case 6.

As can be seen in the figure, the “free” volume becomes extremely tight from 8/2000 until approximately 4/2002. After 4/2002 Phase 1 processing exceeds the influx of new DST waste (SWL, HLW pretreatment, waste generators).

4.7.7 Phase 2 Single-Shell Tank Retrieval

Table 4.7-4 shows the status of SST retrieval for the alternative at 10/2011 (the start of Phase 2 LAW operations). As is expected, the number and volume of SSTs retrieved is quite smaller than the two-contractor cases.

Table 4.7-4. Phase 2 Single-Shell Tank Retrieval Status for Case 6.

	Number of single-shell tanks	Volume retrieved ML (Mgal)
Retrieval Completed	30	21.6 (5.7)
Retrieval Initiated	10	16.3 (4.3)
Total	40	37.9 (10.0)

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5.0 EVALUATION OF ALTERNATIVES

The evaluation of alternatives will focus on the following parameters that were examined on a case by case basis in Section 4.0:

- Waste Transfer History
- Evaporator Schedule
- Total DST System Fill History
- Phase 2 SST Retrieval.

The vendor feed tank fill history and the PHMC staging tank fill history will not be evaluated since all alternatives stages LAW and HLW feed to the contractors on time without schedule interruption.

The evaluations will be between the two-contractor cases (Cases 1-3) and the one-contractor cases (Cases 4-6) separately. "Sister" cases (Cases 1 and 4, 2 and 5, 3 and 6, where the difference is whether there is one or two contractors) may also be compared.

5.1 WASTE TRANSFER HISTORY

The waste transfer history tables (Appendix A) can not be compared on a one-to-one basis with one another. However, what can be compared is pertinent transfers relating to the staging of LAW and HLW feed and the number of tank to tank transfers and the volume of waste transferred per year. The following sections contain the comparisons.

5.1.1 Low-Activity Waste and High-Level Waste Feed Staging Transfers

The following tables show the number of days between when a batch of LAW (Table 5.1-1 and 5.1-2) or HLW (Table 5.1-3 and 5.1-4) has been staged/prereated and when it is transferred to the PC for processing.

The data in Table 5.1-1 shows that for all batches except 7 and 8 the duration between staging and delivering is greater than or equal to the 114 days modeled as necessary for sampling/qualifying. Batches 7 and 8 are staged into the PHMC feed tanks at the same time. Batch 7 is the delivery of the first batch of Envelope C which follows the delivery of the first batch of Envelope B. Since these first batches for Envelope B and C are to be approximately 120 MT of sodium, processing these batches will take approximately 60 days. Therefore the qualifying time for these two batches will need to be reduced (e.g., the model ignored the time constraint for these batches). This anomaly has been previously noted (TWRSO&UP) and will be addressed in the next revision of the TWRSO&UP.

Table 5.1-1. Low-Activity Waste Time for Sampling--Two-Contractor Cases.

Batch	241-AP-102			241-AP-104		
	Case			Case		
	1	2	3	1	2	3
1	114	114	114	114	114	114
2	458	252	404	458	245	396
3	258	257	257	257	259	258
4	210	210	209	209	210	209
5	244	252	259	245	246	254
6	310	274	284	371	336	347
7	66	65	64	64	66	65
8	27	27	27	27	27	27
9	129	129	129	129	129	129
10	232	232	233	181	232	232
11	196	220	209	197	221	211
12	299	301	293	300	302	300

Table 5.1-2. Low-Activity Waste Time for Sampling--One-Contractor Cases.

Batch	Case			
	4	5	6	Tank
1	114	114	114	241-AN-105
2	652	408	469	241-AN-105
3	715	550	610	241-AN-104
4	516	518	516	241-AN-104
5	526	526	526	241-AW-101
6	477	477	477	241-AW-101
7	428	428	428	241-AY-101
8	270	270	271	241-AN-107
9	27	27	27	241-AN-107
10	218	218	218	241-AN-107
11	322	322	322	241-AN-102
12	439	439	440	241-AN-103
13	513	513	513	241-AN-103

Table 5.1-3. High-Level Waste Time for Sampling--Two-Contractor Cases.

Batch	Case		
	1	2	3
241-AZ-101	479	462	479
241-AZ-102	518	340	426
241-AY-102/241-C-106	318	321	440
241-C-104	338	452	465

Table 5.1-4. High-Level Waste Time for Sampling--One-Contractor Cases.

Batch	Case		
	4	5	6
241-AZ-101	479	334	479
241-AZ-102	518	484	466
241-AY-102/241-C-106	440	321	418
241-C-104	460	466	466

The differences in Table 5.1-1 for Batch 2 for the cases can be attributed to the different starting times for LAW Phase 1 feed staging. The values for Cases 2 and 3 are not optimized, but the do show that changes to the baseline will affect the amount of time available for staging/qualifying Batch 2. The differences for Batch 6 between 241-AP-102 and 241-AP-104 (approximately 60 days) is due to the addition of the new feed batch. The amount of sodium is different for the two contractors for this batch. However the sodium fed to each contractor balances out by the conclusion of Batch 12. The differences across the board for Batch 6 is due to 241-AP-101 and 241-AW-104 having different compositions for the different cases. This is because 241-AP-101 (and to a lesser extent 241-AW-104) contains evaporator bottoms. As the evaporator campaigns and tank transfers are changed, different compositions can result in 241-AP-101 and therefore result in different processing times. The delta between Batch 10, Case 1 for 241-AP-102 and 241-AP-104 is due to a model conflict between LAW and HLW staging. However, this has been determined to be an artificial conflict and the delta should be ignored. This can be validated by examining Figure 4.2-4. The duration for both tanks should be 232 days. The differences across the board for Batch 11 are due to 241-AN-106 having different compositions for each case. This situation is identical to the Batch 6 differences defined above.

Table 5.1-2 shows that for the one-contractor cases every batch except for 9 has the necessary duration between staging and delivering. However, unlike the two-contractor cases, the one-contractor cases do not require modification of the sampling/qualifying time allotment. This is because Batch 9 is the delivery of the remainder of Batch 8. Batch 8 is the delivery of the first batch of Envelope C and Batch 9 follows when the PC feed tank contains 30 days of feed.

Since Batches 8/9 are essentially the same batch, the sampling/qualifying time for Batch 9 is 270 days (duration for Batch 8).

The differences in Batches 2 and 3 for the one-contractor cases is due to the differences in the starting times for LAW Phase 1 feed staging. Two batches are affected instead of one (like the two-contractor cases) because of the two staging tanks, one-contractor tank configuration.

As can be seen from Tables 5.1-1 and 5.1-2, the one-contractor cases allow nearly twice the amount of time to sample/qualify the LAW feed. This is because the two-contractor cases have a 1:1 ratio between PHMC staging tanks and private contractor feed tanks while the one-contractor cases have a 2:1 ratio. This higher ratio essentially allows for lag storage prior to delivery and therefore higher sampling/qualifying durations. Also since the one-contractor cases retrieve waste from DSTs that are not scheduled to receive any additional waste, the processing durations for each batch are equal for each case.

Table 5.1-3 shows that for the two-contractor cases every batch of HLW has the necessary modeled duration between the end of pretreatment and the start of delivery (314 days). However, several batches are close to this duration. This is due to evaporator campaign conflicts. Since HLW pretreatment interacts greatly with the DST system (decanting supernate, wash solutions) conflicts with waste generator additions and ultimately evaporator campaigns can occur. These "close" durations should be noted, but should not be used as absolute discriminators.

Table 5.1-4 shows that for the one-contractor cases every batch of HLW has the necessary modeled duration between the end of pretreatment and the start of delivery (314 days). However, like the two-contractor cases, several batches are close to this duration. As stated previously, these "close" durations should be noted, but should not be used as absolute discriminators.

As can be seen from Table 5.1-3 and 5.1-4 there is essentially no difference in HLW feed staging between the one- and two-contractor cases. While it has been stated that HLW feed staging durations should not be a discriminator, it is interesting to note the results for Cases 3 and 6. Neither of these cases contain a duration that is near the modeled 314 day limit. This may be due to an effect of delay the retrieval of saltwell liquid or may be coincidence. Determining the cause will require further analysis but, since HLW durations are not discriminators, it is not necessary for this exercise.

5.1.2 Number and Volume of Tank Transfers

Figures 5.1-1 and 5.1-2 show the total volume and the number of tank to tank transfers for the two-contractor cases per calendar year. Figures 5.1-3 and 5.1-4 show the total volume and the number of tank to tank transfers per calendar year for the one-contractor cases. The important years to focus on are 1999 through 2004. These years are when tank space becomes critical and after 2004 waste processing begins to have more effect on freeing up additional tank space.

Figures 5.1-1 and 5.1-2 show that turning over 241-AP-106 and 241-AP-108 early push transfers and volumes out into 2002 - 2003. This is critical, because during this time HLW pretreatment is occurring and available tank space is minimal. The figures also demonstrate the impact delaying the saltwell liquid retrieval schedule has on operations. A large amount of additional waste (when compared to Cases 1 and 2) is transferred in the 2001 - 2003 time frame. This corresponds to the delay in saltwell pumping operations. This can complicate LAW and HLW feed staging operations because they will be occurring simultaneously with saltwell liquid retrieval.

Figure 5.1-1. Total Volume of Tank Transfers per Calendar Year
Two-Contractor Cases.

Figure 5.1-2. Total Number of Tank Transfers per Calendar Year
Two-Contractor Cases.

Figure 5.1-3. Total Volume of Tank Transfers per Calendar Year
One-Contractor Cases.

Figure 5.1-4. Total Number of Tank Transfers per Calendar Year One-Contractor Cases.

Figures 5.1-3 and 5.1-4 demonstrate the same results as for the two-contractor cases. The figures show that turning AP-108 early pushes transfers and volumes out into 2002 - 2003. The figures also demonstrate the same impact delaying the saltwell liquid retrieval schedule has on operations as the two-contractor cases.

The total volume transferred and the number of transfers per year for the one-contractor cases are much smaller than that for the two-contractor cases. This is to be expected since the cases process different amounts of waste over the same time period. However, the complexity of tank farm operations is not reduced by 50 percent, a large number of tank transfers still need to occur to manage the DST system.

5.2 EVAPORATOR SCHEDULE

Tables 5.2-1 and 5.2-2 below summarize the evaporator schedule per calendar year for the two and one-contractor cases respectively. As can be gathered from the tables, each case requires approximately the same number of evaporator campaigns (approximately 22) and results in the same DST volume reduction (approximately 14 Mgals).

Table 5.2-1. Evaporator Usage for Two-Contractor Cases.

Case	1			2			3		
Calendar year	Number	Volume removed		Number	Volume removed		Number	Volume removed	
		L	gal		L	gal		L	gal
1997	2	4,755,650	1,256,300	2	4,755,650	1,256,300	2	4,755,650	1,256,300
1998	3	8,034,977	2,122,600	3	8,034,977	2,122,600	2	4,893,440	1,292,700
1999	4	6,691,023	1,767,568	2	4,347,849	1,148,571	2	3,765,757	994,800
2000	2	6,562,441	1,733,600	2	3,878,185	1,024,500	1	2,145,340	566,734
2001	2	3,278,949	866,200	3	5,873,783	1,551,677	3	6,176,326	1,631,600
2002	1	3,111,633	822,000	1	2,346,595	619,900	2	4,647,972	1,227,855
2003	0	0	0	1	3,154,719	833,382	2	5,268,199	1,391,700
2004	2	6,167,636	1,629,305	3	6,790,160	1,793,757	2	5,225,936	1,380,536
2005	1	2,879,097	760,571	1	4,231,196	1,117,755	2	4,701,666	1,242,039
2006	2	3,785,820	1,000,100	2	4,489,155	1,185,900	1	2,833,988	748,655
2007	1	4,078,813	1,077,500	1	2,189,878	578,500	1	3,177,121	839,300
2008	0	0	0	1	2,297,763	607,000	1	2,793,656	738,000
2009	0	0	0	0	0	0	0	0	0
2010	1	2,979,142	787,000	1	2,734,661	722,415	0	0	0
2011	0	0	0	0	0	0	1	3,160,086	834,800
Total	21	52,425,181	13,822,743	23	55,124,570	14,562,258	22	53,545,135	14,145,018

Table 5.2-2. Evaporator Usage for One-Contractor Cases.

Case Calendar year	4			5			6		
	Number	Volume removed		Number	Volume removed		Number	Volume removed	
		L	gal		L	gal		L	gal
1997	2	4,755,650	1,256,300	2	4,755,650	1,256,300	2	4,755,650	1,256,300
1998	3	8,034,977	2,122,600	3	8,034,977	2,122,600	2	4,893,440	1,292,700
1999	4	6,691,023	1,767,568	2	5,200,947	1,373,934	2	3,372,450	890,900
2000	2	6,562,441	1,733,600	3	4,326,002	1,142,800	2	4,609,532	1,217,700
2001	1	2,748,987	726,200	3	6,879,287	1,817,301	3	5,844,759	1,544,010
2002	1	2,937,502	776,000	2	6,394,733	1,689,297	2	6,172,162	1,630,500
2003	1	2,795,427	738,468	0	0	0	2	3,963,652	1,047,078
2004	1	2,961,797	782,418	2	5,947,413	1,571,128	3	6,526,984	1,724,233
2005	2	5,328,766	1,407,700	1	3,040,050	803,090	1	3,590,870	948,600
2006	1	1,317,334	348,000	1	2,094,641	553,341	1	2,337,131	617,400
2007	1	3,911,024	1,033,175	1	2,336,374	617,200	1	2,335,617	617,000
2008	0	0	0	1	2,335,996	617,100	1	2,336,374	617,200
2009	1	2,356,059	622,400	0	0	0	0	0	0
2010	0	0	0	1	2,741,995	724,342	1	2,742,294	724,432
2011	1	2,776,724	733,527	0	0	0	0	0	0
Total	21	53,177,711	14,047,956	22	54,088,026	14,288,434	23	53,480,913	14,128,053

HNF-2321
Revision 0

As with the tank transfers, the important years to focus on are 1999 through 2004. A portion of the evaporator need in the 2000 - 2002 time frame can be attributed to HLW pretreatment, but it is primarily in support of concentrating retrieved saltwell liquid from east and west area. As can be seen from Cases 3 and 6, delaying saltwell liquid retrieval may have an impact on the complexity of LAW and HLW feed staging operations during the 2000 - 2002 time frame. However there appears to be no discrimination between having two or one LAW contractor.

5.3 TOTAL DOUBLE-SHELL TANK SYSTEM FILL HISTORY

The following figures (5.3-1 to -10) show the total DST system volume and calculated free volume for the two-contractor cases, the one-contractor cases, and each "sister" case as defined in Section 5.0.

Figures 5.3-1 and 5.3-3 demonstrate the impact delaying saltwell liquid retrieval (Cases 3 and 6 respectively) has on the total volume of the DST system. The total volume of the DST system is lower for the early years (1997 - 2000), but increases to a maximum higher than the other cases in the 2001 - 2003 time frame. As stated previously, this time frame corresponds to the start of Phase 1 staging operations. The potential for tank space conflict is greater for these cases. In the free volume figures (Figures 5.3-2 and 5.3-4) the minimum free volume for Cases 3 and 6 are also shifted to the later years, but they are not smaller than the other cases. This means that the minimum will occur at a time that corresponds to the start of Phase 1 staging operations, but its effect does not appear to be greater than the other cases.

Figure 5.3-1. Total Volume Comparison for Two-Contractor Cases.

Figure 5.3-2. Free Volume Comparison for Two-Contractor Cases.

Figure 5.3-3. Total Volume Comparison for One-Contractor Cases.

Figure 5.3-4. Free Volume Comparison for One-Contractor Cases.

Figure 5.3-5. Total Volume Comparison - Cases 1 and 4.

Figure 5.3-6. Free Volume Comparison - Cases 1 and 4.

Figure 5.3-7. Total Volume Comparison - Cases 2 and 5.

Figure 5.3-8. Free Volume Comparison - Cases 2 and 5.

Figure 5.3-9. Total Volume Comparison - Case 3 and 6.

Figure 5.3-10. Free Volume Comparison - Cases 3 and 6.

Figures 5.3-1 and 5.3-2 also demonstrate the impact turning over AP-106 and AP-108 early has on the total volume of the DST system and the free DST system volume. From early 1999 until 2001, the two-contractor, early release case (Case 2) lags behind the base case (Case 1) in both total system volume and free space. After 2001 the cases tend to balance out. For the one-contractor, early release case (Case 5) the same effect is noticed (Figures 5.3-3 and 5.3-4), but the magnitude is smaller and the recovery is quicker. This is because only one tank is turned over (241-AP-108) thereby leaving an additional tank for tank farm operations use.

By examining the total volume figures for the “sister” cases (Figures 5.3-5, -7, and -9) it can be deduced that the effect of having two contractors instead of one on total volume becomes prevalent 10/2003 for the base cases (Cases 1 and 4) and 10/2004 for the early release cases. At this time the lines begin to diverge at a faster rate. The free volume figures (Figures 5.3-6, -8, and -10) do not diverge significantly until after 10/2006 and they show a large disparity from start until 10/2001. The late divergence and the degree of disparity may be partly caused by how free volume was calculated. As stated previously, free volume excludes tanks 241-AP-102, -104, and -108 (and 241-AP-106 depending on the case) after initiation of Phase 1 LAW retrieval; tanks 241-AZ-101, -102 and 241-AY-102; 241-AP-107 after the start of Phase 1 processing; and all DSTs that will be used for Phase 1 LAW feed and in the feed staging activities. This last part is where the problem occurs. For the two-contractor cases, 241-SY-102 is used in the retrieval of 241-SY-101 and 241-SY-103 (“feed staging activities”). Therefore, the volume in 241-SY-102 is not considered “free” until after these tanks are retrieved (approximately 10/2007). Tank 241-SY-102 should be considered “free” up until the time it is needed for SY retrieval, but it is not. Therefore the free volume differences between the “sister” cases should be considered smaller than pictured. However, there is still at least a one tank difference between the volumes since the one-contractor cases do not relinquish the use of 241-AP-106.

5.4 PHASE 2 SINGLE-SHELL TANK RETRIEVAL

Table 5.4-1 summarizes the state of Phase 2 SST retrieval operations for each of the cases. The table lists the number of tanks in which retrieval has been completed (by 10/2011), the number of tanks being retrieved from, and the total volume retrieved on an as-retrieved basis (includes retrieval water).

Table 5.4-1. Single-Shell Tank Retrieval Status by Case.

Case	1	2	3	4	5	6
Single-shell tanks retrieved	36	36	38	27	26	30
Single-shell tanks being retrieved	10	10	10	10	10	10
Total volume retrieved ML (Mgals)	50.7 (13.4)	50.7 (13.4)	50.3 (13.3)	38.2 (10.1)	37.5 (9.9)	37.9 (10.0)

It should be noted that the same SST retrieval schedule that was used in Rev. 0 of the TWRSO&UP was used for each case. No attempt was made to optimize the retrieval sequence. In any event, Table 5.4-1 shows that the two-contractor cases have the potential for retrieving an additional 8 to 10 SSTs compared to the one-contractor cases. This is due to the fact that more DST waste is being processed in the two-contractor cases and therefore more DST spaced is freed up to be used for SST retrieval operations. The two-contractor cases all meet the driver associated with the complete retrieval of AX tank farm prior to 2011 - none of the one-contractor cases meet this goal. However, this result is based upon a sequence that was developed around a two-contractor case. The 2011 date for the complete retrieval of AX farm could be met for the one-contractor cases, but the retrieval sequence would have to be completely reworked and potentially fewer SSTs would have retrieval completed. This may impact up-front milestones and current planning/projects.

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6.0 SUMMARY

This section is divided up into two sections. The first section summarizes the results of this study. The second lists general observations that were made while running the HTWOS model and collecting data.

6.1 SUMMARY OF RESULTS

Table 6.1-1 summarizes the results of this study using all the metrics defined in Section 3.0. The scores for the cases are based relative to the TWRSO&UP "base case" (Case 1). Case 1 is assumed to have a score of 0 for all metrics. The results for the other cases are then scored based upon their relation to Case 1 and each other.

Table 6.1-1. Summary of Results.

Metric	Tank transfers						Evap- orator usage	Vendor tanks “hands- off” on time
	High-level waste staging		Low-activity waste staging		Waste transfers			
	Delivery	Float	Delivery	Float	Volume	Number		
Case								
1	Met	0	Met	0	0	0	0	Met
2	Met	0	Met	-2	0	0	-1	Met
3	Met	+1	Met	-1	0	0	0	Met
4	Met	+1	Met	+3	+1	+1	0	Met
5	Met	0	Met	+1	+1	+1	-1	Met
6	Met	+1	Met	+2	+1	+1	0	Met
Metric	Staging tanks usage	Total double-shell tank system				Phase 2 single-shell tank retrieval		
		Total volume	Free volume	DN/DC segregation		Tanks	Volume	
Case								
1	0	0	0	0	0	0	0	
2	-2	0	-1	-1	0	0	0	
3	-2	-1	-1	-1	0	0	0	
4	0	-1	+1	0	-1	-1	-1	
5	-1	-1	0	-1	-1	-1	-1	
6	-1	-2	0	-1	-1	-1	-1	

DC = Dilute complexed

DN = Dilute non-complexed.

The following paragraphs describe how the scoring was arrived at for each metric.

HLW Staging. All cases meet the delivery schedule for HLW. The scores for float are based upon the information presented in Section 5.1.1 (Tables 5.1-3 and -4). Cases 3, 4, and 6 were given scores of +1 because they do not have durations that approach the minimum of 314 days. However, as stated in Section 5.1.1, HLW staging should not be used as an absolute discriminator because it interacts directly with the DST system (OWVP operations) which does not operate “smart” at this time.

LAW Staging. All cases meet the delivery schedule for LAW. The scores for float are based upon the information presented in Section 5.1.1 (Tables 5.1-1 and -2). Case 2 has less float time than Case 3 and both have less than Case 1. Cases 4, 5, and 6 all have greater float time than Case 1 with 4 having more than 5 and 5 having more than 6.

Waste Transfers. Cases 1, 2, and 3 have approximately the same number of transfers and the same total volume of waste transferred. Cases 4, 5, and 6 have fewer transfers and transfer less volume than Case 1, but each have approximately the same number of transfers and the same total volume of waste transferred.

Evaporator Usage. Each case, except Cases 2 and 5, are approximately equal in volume evaporated and number of evaporator campaigns. Cases 2 and 5 were given scores of -1 because they require larger amounts of evaporation.

Vendor Tanks “Hands-Off” on Time. This metric summarizes if each specific case met its “hands-off” date. All cases meet this metric.

Staging Tank Usage. This metric examines the usage of 241-AP-102 and 241-AP-104 for tank farm operations up until retrieval of the first feed batch. Case 4 usage for these tanks is identical to Case 1 so its value is 0. Cases 5 and 6 use 241-AP-102 and 241-AP-104 past what they are used in Case 1, but do not interfere with LAW feed staging operations. Therefore they are given a score of -1. Cases 2 and 3 also use 241-AP-102 and 241-AP-104 past Case 1, but they are also used past Cases 5 and 6. They are given a score of -2. However, like Cases 5 and 6, they do not interfere with LAW feed staging operations.

Total Volume. The total volume for Case 3 peaks higher than for Cases 1 and 2 (Figure 5.3-1) and therefore is given a score of -1. Cases 4 and 5 do not peak higher than their “sister” cases (Figures 5.3-5 and -7 respectively), but they do end up with higher total volumes. They receive a score of -1. Case 6 peaks higher than Cases 4 and 5 (Figure 5.3-3) and ends up with a higher total volume (Figure 5.3-9) and is given a score of -2.

Free Volume. Cases 2 and 3 have lower free volumes than Case 1 because they relinquish the right to use tanks 241-AP-106 and 241-AP-108 for tank farm operations sooner. However, it appears that delaying saltwell liquid retrieval does not have a large impact on the amount of free space available (Figure 5.3-2). Therefore they are scored as -1. Since Case 4 is identical to Case 1, except that the use of 241-AP-106 is not relinquished, its free space is greater and it receives a score of +1. This is subject to debate because even though Case 4 has more free space in the early years, it has less in the later years (Figure 5.3-6). Like Case 4, Cases 5 and 6 do not

relinquish 241-AP-106 and have less volume in the later years, but they do relinquish use of 241-AP-108 earlier. Therefore they are scored as 0.

DN/DC Segregation. DN/DC segregation of retrieved saltwell liquid was used in the OWVP Rev. 23 and, therefore, was used for Cases 1 and 4. However Cases 2, 3, 5, and 6 did not follow the tank-to-tank transfers as outlined in the OWVP rev 23 after the “hands-off” date. Therefore the segregation of DN/DC were not rigorously followed. Because of this, these cases were given a score of -1.

SST Tanks Retrieved. Cases 1, 2, and 3 effectively complete retrieval from the same number of SSTs and retrieve the same total volume of SST waste (Table 5.4-1). Cases 4, 5, 6 retrieve far less (Table 5.4-1) than the two-contractor cases, but they are effectively equal to one another. Therefore they are scored as -1.

As can be seen from the results, relinquishing the use of tanks early decreases the overall score of the case regardless of the contractor scenario being modeled. However, the scores tend to increase when the early release is coupled with a delay in saltwell liquid retrieval, but not so much as to equal the base cases (Cases 1 or 4).

The scores for the “sister” cases (as defined in Section 5.0) tend to favor the one-contractor scenarios except for total volume and Phase 2 SST retrieval. Both parameters reflect negatively on the one-contractor scenarios because these cases do not remove as much waste from the DST system as the two-contractor cases. Therefore the ending DST volume is higher (see definition of Total Volume above) and fewer SSTs can be retrieved.

6.2 OBSERVATIONS

General observations are summarized below - more detailed descriptions of important observations follow.

1. Usable tank space will become limited in the 2000 - 2002 time frame for all cases
 - Turning over any tank early to the PC(s) will compound this problem.
 - Delaying saltwell liquid retrieval so that the bulk of the remaining volume is retrieved during this time frame will further compound the problem.
 - The one-contractor scenario lessens the effect of early “hands-off” since one tank instead of two is turned over.
 - This early effect is lessened by the greater processing of two contractors by 2003/2004.
 - SST retrieval in support of Phase 2 is delayed by the lack of free DST space.

- The number of LAW contractors does not affect the HLW pretreatment operations which have a large impact on available DST volume
2. HLW feed staging/pretreatment operations are more susceptible to delays caused by DST space limitations. HLW pretreatment operations add more waste to the system and therefore directly impact the amount of free space available, evaporator operations, and waste transfer timing.
 3. Turning over tanks early to the PC(s) and therefore limiting the amount of usable space makes the interdependence of tank transfers more intricate. With the amount of usable space shrinking, transfers become more dependant on earlier transfers occurring. This can greatly increase the risk of failure.
 4. All cases can meet the feed requirements for LAW and HLW staging based upon the assumptions made in the model,
 - However, model is too simplistic at this point to guarantee delivery
 - No RAM analysis
 - Piping/valving not modeled
 - Model assumes AP-102 and AP-104 remain usable
 - Some schedules contain near zero float
 - Production ramp factor of 1.0 assumed for Phase 1 processing
 5. All cases employ evaporator operations rather heavily until the 2007/2008 time frame

The data in Section 4.0 (specifically Sections 4.X.2, X = 2 - 7) demonstrate that for each case, based upon the constraints within the model, feed delivery can be accomplished by the PHMC Team on schedule. However, the data also demonstrate that tank farm operations (tank-to-tank waste transfers, waste generator transfers, evaporator operations) are very complex and interdependent before and during the early years of Phase 1. This is caused by the usable DST space limitation and is true regardless of whether there are two LAW contractors or which saltwell liquid retrieval schedule is used. Common sense tells us that as the complexity and interdependency of tank farm operations increase, the impact a specific transfer has upon the entire system increases and therefore the risk of failure increases. Thus it is concluded that for the early "hands-off" cases (Cases 2, 3, 5, and 6) the PHMC Team can not guarantee delivery of LAW and HLW feed to the PCs solely based upon the output of this study. Another study should be undertaken that includes reliability, availability, and maintainability (RAM) algorithms of tank farm components (pumps, valves, piping, etc.) to better simulate "reality." The addition of RAM analyses is intended to be included in a future revision of the HTWOS model.

The study shows that the saltwell liquid retrieval schedule should either be accelerated so that it completes in 1999/2000 or include an additional 2 year or so delay (2000 - 2002) or reduction (i.e., less salt well liquid retrieved during this time frame). The early completion of saltwell liquid retrieval may remove the potential conflict between it and feed staging operations, but this scenario is unlikely. The retrieval of saltwell liquid is presently behind the "base"

schedule and therefore a delay/reduction is already expected in the completion date. A two-year or so delay or reduction in the retrieval operations has the potential to move the bulk of the volume conflict away from the time period at which tank space is extremely tight, but this option needs to be examined in more detail. A too lengthy delay may detrimentally impact the two-contractor cases because they process waste that results from the concentration of retrieved saltwell liquid (241-AP-101, 241-AW-104, and 241-AN-106). Also, Tri-Party Agreement milestones may need to be renegotiated and the risk of leaving salt well liquid in leaking SSTs for longer periods of time needs to be evaluated.

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7.0 RECOMMENDATIONS

The following bullets outline recommended modeling work/studies/assumption revisions that should be undertaken to support the ICD 19D issue - "Feed Tank Fill Status." Impacts of changes resulting from the below work may result in this study being revised.

1. Conduct a separate study that examines a case(s) which "decouples" Phase 1 operations and SWL retrieval. This may include delaying saltwell liquid retrieval or delaying the start of Phase 1 operations for both the one and two-contractor scenarios. This evaluation should be initiated after the next revision of the TWRSO&UP to allow the HTWOS model to be further updated/refined. The reason for waiting is that the updating will include changes to operations as well as possible inventory changes (DSTs and saltwell liquid). These changes will directly affect the results.
2. In HTWOS, schedule the HLW pretreatment operations around saltwell liquid retrieval (or visa versa) in order to avoid conflicts. Currently the HLW pretreatment is scheduled on an as-needed/when-allowable basis. This scheduling may need to be done manually at first, but the HTWOS model should be able to be programmed to set it.
3. Re-examine the assumptions used for modeling the evaporator. This should be accomplished by the next revision of the TWRSO&UP. Higher allowable boiloff rates and/or shorter sampling times may reduce tank space conflicts.
4. Re-evaluate the necessary sampling/qualification time for the LAW and HLW feed.
5. Revisit the assumptions for handling the contractor returns. Presently the model assumes that the contractor will accumulate returns (entrained solids and TRU/Sr/Tc for the LAW contractor w/o HLW) until its volume reaches approximately 34 m³ (9,000 gal). The slurry is then pumped into a DST (presently 241-AP-107) that was emptied prior to the start of Phase 1 processing (6/1/2002). The first transfer of returns is not scheduled to occur until 1/2003. If this holds true, then the PHMC Team may be allowed to use 241-AP-107 for waste storage operations after the start of Phase 1. Also, if the PC returns accumulation tank is greater than approximately 38 m³ (10,000 gal), the PHMC may be allowed to use 241-AP-107 past 1/2003 and possibly up to the time at which tank space is no longer limited. Another possibility is to reserve space in 241-AP-107 (or another DST) to receive contractor returns, but not empty the entire tank. These options need to be discussed further, but do warrant consideration.
6. Meld the OWVP and HTWOS models together completely. Currently the OWVP section of the model is hard coded in. Dates are given for specific transfers and they do not take into account LAW and HLW feed staging operations; they are completely independent.

7. Incorporate the results of the RAM analysis into the HTWOS model. This may be included in the next version of the TWRSO&UP depending on when the analysis is complete and the complexity of incorporating it.
8. Revisit the reasoning behind why, in Section 2.2, the "Both Full" "Fill Status" parameter was removed from consideration. As stated in Section 2.2, this may need to be considered as an option if the other parameters result in scenarios that do not meet the desired objective(s). The need to do this may be dependant on the results of the other work defined above and may result in revising this document.

8.0 REFERENCES

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APPENDIX A
TRANSFER LIST

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APPENDIX A**TRANSFER LIST**

This appendix contains a transfer list that contains every transfer (tank-to-tank, waste generators, Phase 1 feed staging, evaporator campaigns) for each case evaluated. Also included are tables of transfers that are pertinent to Phase 1 LAW and HLW feed staging operations. The List of Tables below guides the reader to the appropriate table:

List of Tables

A.0-1. Index for Waste Transfer Tables	A-5
A.1-1. Complete Transfer List for Case 1	A-7
A.1-2. Phase 1 LAW Feed Staging Transfers for Case 1	A-24
A.1-3. Phase 1 HLW Feed Staging Transfers for Case 1	A-27
A.2-1. Complete Transfer List for Case 2	A-29
A.2-2. Phase 1 LAW Feed Staging Transfers for Case 2	A-51
A.2-3. Phase 1 HLW Feed Staging Transfers for Case 2	A-54
A.3-1. Complete Transfer List for Case 3	A-56
A.3-2. Phase 1 LAW Feed Staging Transfers for Case 3	A-81
A.3-3. Phase 1 HLW Feed Staging Transfers for Case 3	A-84
A.4-1. Complete Transfer List for Case 4	A-86
A.4-2. Phase 1 LAW Feed Staging Transfers for Case 4	A-106
A.4-3. Phase 1 HLW Feed Staging Transfers for Case 4	A-108
A.5-1. Complete Transfer List for Case 5	A-110
A.5-2. Phase 1 LAW Feed Staging Transfers for Case 5	A-131
A.5-3. Phase 1 HLW Feed Staging Transfers for Case 5	A-133
A.6-1. Complete Transfer List for Case 6	A-135
A.6-2. Phase 1 LAW Feed Staging Transfers for Case 6	A-159
A.6-3. Phase 1 HLW Feed Staging Transfers for Case 6	A-161

For the complete list of transfers, the data are presented in the following format:

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
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where:

From	the tank/equipment/waste source/facility pumping from
To	the tank/equipment/facility pumping to
Start Date	the date pumping was initiated
End Date	the date pumping was completed
Liquid	the gallons of liquid pumped
Solid	the gallons of solid pumped

For the Phase 1 LAW and HLW feed staging transfers, the data are presented in the following format:

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
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where:

Boot Strap	defines a transfer as a necessary boot strap transfer for feed staging
From	the tank/equipment/waste source/facility pumping from
To	the tank/equipment/facility pumping to
Start Date	the date pumping was initiated
End Date	the date pumping was completed
Liquid	the gallons of liquid pumped
Solid	the gallons of solid pumped
Notes	brief description of what transfer is or why was performed

The transfer files contain transfers that are from and to SSTs and DSTs. However, there are a large number of transfers that include equipment/sources that are not existing as SSTs or DSTs. These include the 242-A evaporator, PC facilities and feed tank, annex tanks used for Phase 2 retrieval, and waste generator sources. The definitions for these sources are in Table A.0-1 below.

Most of the transfers in the tables are simple tank to tank or waste source to tank transfers, but some are more complicated. The more elaborate transfers are described separately in the paragraphs below.

Evaporator Runs. Evaporator passes consist of three lines in the transfer tables. The first line gives the transfer from the evaporator feed tank (AW-102) to 242-A, the second line gives the transfer from 242-A to the evaporator bottoms catch tank (AW-106), and the third line gives the transfer from 242-A to the condensate catch tank (defined as LERF in the model). The reader is reminded that an evaporator campaign can consist of several passes.

In-Line Dilution Transfers. For some of the transfers in support of LAW feed staging, DST contents will be retrieved and transferred using in-line dilution. In-line dilution consists of pumping (and mixing if desired) the DST contents as they exist and adding dilution/transfer water in the line. No water is added directly to the tank. Also if any dissolution/precipitation reactions are to occur they will occur in the line. Therefore, in order to be accurate, this transfer needed to be described in three steps: what is removed from the source tank, the amount of water added, and what is added to the destination tank.

Table A.0-1. Index for Waste Transfer Tables.

Name	Definition
1FL96	105-F, 105-H, and 100-N Liquid TCO Waste
1KL96	100-K Liquid TCO Waste
1NS96	100-Area Solid TCO Waste
242-A	242-A Evaporator
34L87	300/400 Area Lab Waste
BA-?	Annex Tanks for NE Quadrant
BPTCO	B Plant TCO Waste
EVAPF	Evaporator Flush and Tank Farm Water
HLW-CONTRACTOR	HLW Contractor Processing Facility
LAW-CONTRACTOR-?	LAW Contractor Processing Facility
LERF	Evaporator Overheads Accumulation
PIHLW_FEED_TANK	Phase 1 HLW Contractor Feed Tank
PXTCO	PUREX TCO Waste
RETURN_?	Phase 1 LAW Contractor Returns Tanks
SPN87	S Plant Dilute Non-Complexed Waste
TA-?	Annex Tanks for NW Quadrant
TAL88	T Plant Supernate
TNS88	T Plant Solids
UA-?	Annex Tanks for U Farm
UNKN	Unknown Addition (Water)
WASH-CAUSTIC	Caustic Solution for Enhanced Wash
WASH-WATER	Dilute Caustic Solution for Solids Washing
WATER	Water
WCE88	East Area Complexed Salt Well Liquid
WCW88	West Area Complexed Salt Well Liquid
WESF	WESF Waste
WNE88	East Area Dilute, Non-Complexed Salt Well Liquid
WNW88	West Area Dilute, Non-Complexed Salt Well Liquid
ZNL87	Combined PFP Waste Stream

The in-line dilution transfers can be found in the transfer table by examining the "To" column to find an entry that is "name of a DST"-PUMP. This entry is for the addition of the dilution water. The entry before this one gives the transfer out of the source tank and the entry after gives the transfer to the destination tank. For the some of the transfers one can see that the solids transferred out of the source tank do not equal the solids transferred into the destination tank. This is due to the dissolution/precipitation reactions that occur in-line.

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
1FL96	AW-105	10/1/96	10/1/96	13,000	0
1NS96	AW-105	10/1/96	10/1/96	750	250
34L87	AP-106	10/1/96	10/1/96	10,000	0
BPTCO	AP-106	10/1/96	10/1/96	11,000	0
EVAPF	AP-106	10/1/96	10/1/96	10,000	0
SPN87	AP-106	10/1/96	10/1/96	7,000	0
TAL88	AP-106	10/1/96	10/1/96	4,000	0
TNS88	AP-106	10/1/96	10/1/96	750	250
WATER	SY-102	10/1/96	10/1/96	5,000	0
WESF	AP-106	10/1/96	10/1/96	5,000	0
WNE88	AP-106	10/1/96	10/1/96	1,000	0
WNW88	SY-102	10/1/96	10/1/96	19,000	0
ZNL87	SY-102	10/1/96	10/1/96	2,000	0
WATER	AP-106	10/2/96	10/2/96	3,000	0
WATER	SY-102	10/2/96	10/2/96	5,000	0
WATER	AW-105	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	12,000	0
BPTCO	AP-106	11/1/96	11/1/96	10,000	0
EVAPF	AP-106	11/1/96	11/1/96	10,000	0
WATER	SY-102	11/1/96	11/1/96	3,000	0
WNE88	AP-106	11/1/96	11/1/96	1,000	0
WNW88	SY-102	11/1/96	11/1/96	14,000	0
BPTCO	AP-106	12/1/96	12/1/96	11,000	0
EVAPF	AP-106	12/1/96	12/1/96	10,000	0
WATER	SY-102	12/1/96	12/1/96	3,000	0
WNE88	AP-106	12/1/96	12/1/96	1,000	0
WNW88	SY-102	12/1/96	12/1/96	14,000	0
34L87	AP-106	1/1/97	1/1/97	10,000	0
BPTCO	AP-106	1/1/97	1/1/97	10,000	0
EVAPF	AP-106	1/1/97	1/1/97	10,000	0
SPN87	AP-106	1/1/97	1/1/97	6,000	0
TAL88	AP-106	1/1/97	1/1/97	4,000	0
WATER	AP-106	1/1/97	1/1/97	4,000	0
WATER	SY-102	1/1/97	1/1/97	4,000	0
WESF	AP-106	1/1/97	1/1/97	5,000	0
WNE88	AP-106	1/1/97	1/1/97	1,000	0
WNW88	SY-102	1/1/97	1/1/97	14,000	0
AW-106	AP-101	1/4/97	1/4/97	69,511	3
AN-106	AP-108	1/11/97	1/12/97	177,000	7
BPTCO	AP-106	2/1/97	2/1/97	10,000	0
EVAPF	AP-106	2/1/97	2/1/97	10,000	0
WATER	SY-102	2/1/97	2/1/97	4,000	0
WNW88	SY-102	2/1/97	2/1/97	14,000	0
EVAPF	AW-102	2/20/97	2/20/97	50,000	0
AP-105	AW-102	2/20/97	2/24/97	942,000	39
34L87	AP-106	3/1/97	3/1/97	10,000	0
BPTCO	AP-106	3/1/97	3/1/97	11,000	0
EVAPF	AP-106	3/1/97	3/1/97	10,000	0
PXTCO	AP-106	3/1/97	3/1/97	5,000	0
WATER	SY-102	3/1/97	3/1/97	4,000	0
WATER	AP-106	3/1/97	3/1/97	5,000	0
WNW88	SY-102	3/1/97	3/1/97	16,000	0
242-A	LERF	2/26/97	3/2/97	405,000	0
242-A	AW-106	2/26/97	3/2/97	622,000	42
AW-102	242-A	2/26/97	3/2/97	1,027,000	42
EVAPF	AW-102	3/3/97	3/3/97	35,000	0
BPTCO	AP-106	4/1/97	4/1/97	10,000	0
EVAPF	AP-106	4/1/97	4/1/97	10,000	0
SPN87	AP-106	4/1/97	4/1/97	6,000	0
TAL88	AP-106	4/1/97	4/1/97	4,000	0
WATER	SY-102	4/1/97	4/1/97	6,000	0
WESF	AP-106	4/1/97	4/1/97	5,000	0
WNE88	AP-106	4/1/97	4/1/97	1,000	0
WNW88	SY-102	4/1/97	4/1/97	22,000	0
AW-106	AP-105	4/25/97	4/28/97	617,000	29
AY-101	AP-108	4/25/97	4/29/97	809,000	30
34L87	AP-106	5/1/97	5/1/97	10,000	0
BPTCO	AP-106	5/1/97	5/1/97	11,000	0

Table A.1-1. Complete Transfer List for Case 1.

	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPF	AP-106	AP-106	5/1/97	5/1/97	10,000	0
WATER	AP-106	AP-106	5/1/97	5/1/97	4,000	0
WATER	SY-102	SY-102	5/1/97	5/1/97	5,000	0
WNE88	AP-106	AP-106	5/1/97	5/1/97	1,000	0
WNNW88	SY-102	SY-102	5/1/97	5/1/97	19,000	0
BPTCO	AP-106	AP-106	6/1/97	6/1/97	10,000	0
EVAPF	AP-106	AP-106	6/1/97	6/1/97	10,000	0
WATER	SY-102	SY-102	6/1/97	6/1/97	4,000	0
WNE88	AP-106	AP-106	6/1/97	6/1/97	1,000	0
WNNW88	SY-102	SY-102	6/1/97	6/1/97	16,000	0
34L87	AP-106	AP-106	7/1/97	7/1/97	10,000	0
BPTCO	AP-106	AP-106	7/1/97	7/1/97	11,000	0
EVAPF	AP-106	AP-106	7/1/97	7/1/97	10,000	0
SPN87	AP-106	AP-106	7/1/97	7/1/97	6,000	0
TAL88	AP-106	AP-106	7/1/97	7/1/97	4,000	0
WATER	AP-106	AP-106	7/1/97	7/1/97	4,000	0
WATER	AN-101	AN-101	7/1/97	7/1/97	5,000	0
WATER	SY-102	SY-102	7/1/97	7/1/97	6,000	0
WCE88	AN-101	AN-101	7/1/97	7/1/97	20,000	0
WESF	AP-106	AP-106	7/1/97	7/1/97	5,000	0
WNE88	AP-106	AP-106	7/1/97	7/1/97	1,000	0
WNNW88	SY-102	SY-102	7/1/97	7/1/97	24,000	0
AN-106	AW-108	AW-108	7/25/97	7/26/97	194,000	7
AP-108	AW-102	AW-102	7/25/97	7/31/97	1,198,000	42
BPTCO	AP-106	AP-106	8/1/97	8/1/97	10,000	0
EVAPF	AP-106	AP-106	8/1/97	8/1/97	10,000	0
WATER	AP-106	AP-106	8/1/97	8/1/97	4,000	0
WATER	AN-101	AN-101	8/1/97	8/1/97	6,000	0
WATER	SY-102	SY-102	8/1/97	8/1/97	13,000	0
WCE88	AN-101	AN-101	8/1/97	8/1/97	25,000	0
WNE88	AP-106	AP-106	8/1/97	8/1/97	16,000	0
WNNW88	SY-102	SY-102	8/1/97	8/1/97	51,000	0
242-A	AW-106	AW-106	7/28/97	8/2/97	346,700	39
242-A	LERF	LERF	7/28/97	8/2/97	851,300	0
AW-102	242-A	242-A	7/28/97	8/2/97	1,198,000	39
EVAPF	AW-102	AW-102	8/3/97	8/3/97	25,000	0
WATER	AP-107	AP-107	8/20/97	8/20/97	35,000	0
AW-106	AN-106	AN-106	8/25/97	8/26/97	347,000	16
SY-102	AP-107	AP-107	8/25/97	8/27/97	520,000	20
BPTCO	AP-106	AP-106	9/1/97	9/1/97	10,000	0
EVAPF	AP-106	AP-106	9/1/97	9/1/97	10,000	0
WATER	AN-101	AN-101	9/1/97	9/1/97	10,000	0
WATER	AP-106	AP-106	9/1/97	9/1/97	12,000	0
WATER	SY-102	SY-102	9/1/97	9/1/97	15,000	0
WCE88	AN-101	AN-101	9/1/97	9/1/97	40,000	0
WNE88	AP-106	AP-106	9/1/97	9/1/97	46,000	0
WNNW88	SY-102	SY-102	9/1/97	9/1/97	61,000	0
34L87	AP-106	AP-106	10/1/97	10/1/97	7,000	0
34L87	AP-106	AP-106	10/1/97	10/1/97	10,000	0
BPTCO	AP-106	AP-106	10/1/97	10/1/97	11,000	0
EVAPF	AP-106	AP-106	10/1/97	10/1/97	10,000	0
PXTCO	AP-106	AP-106	10/1/97	10/1/97	5,000	0
SPN87	SY-102	SY-102	10/1/97	10/1/97	7,000	0
TAL88	AP-106	AP-106	10/1/97	10/1/97	4,000	0
TNS88	AN-101	AN-101	10/1/97	10/1/97	750	250
WATER	AP-106	AP-106	10/1/97	10/1/97	10,000	0
WATER	AP-106	AP-106	10/1/97	10/1/97	12,000	0
WATER	SY-102	SY-102	10/1/97	10/1/97	28,000	0
WCE88	AN-101	AN-101	10/1/97	10/1/97	40,000	0
WESF	AP-106	AP-106	10/1/97	10/1/97	5,000	0
WNE88	AP-106	AP-106	10/1/97	10/1/97	46,000	0
WNNW88	SY-102	SY-102	10/1/97	10/1/97	111,000	0
ZNL87	SY-102	SY-102	10/1/97	10/1/97	4,000	0
WASH-CAUSTIC	AN-107	AN-107	10/2/97	10/2/97	66,000	0
WATER	SY-102	SY-102	10/2/97	10/2/97	1,000	0
WATER	AP-106	AP-106	10/2/97	10/2/97	3,000	0
WATER	AP-106	AP-106	10/2/97	10/2/97	3,000	0
WATER	SY-102	SY-102	10/2/97	10/2/97	5,000	0
WATER	AP-106	AP-106	10/2/97	10/2/97	5,000	0
WATER	AP-106	AP-106	10/2/97	10/2/97	5,000	0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AY-102	AP-106	10/25/97	10/25/97	35,999	1
WATER	AY-102	10/26/97	10/27/97	176,000	0
EVAPF	AP-106	11/1/97	11/1/97	10,000	0
WATER	AN-101	11/1/97	11/1/97	10,000	0
WATER	AP-106	11/1/97	11/1/97	12,000	0
WATER	SY-102	11/1/97	11/1/97	30,000	0
WCE88	AN-101	11/1/97	11/1/97	40,000	0
WNE88	AP-106	11/1/97	11/1/97	46,000	0
WNNW88	SY-102	11/1/97	11/1/97	119,000	0
EVAPF	AP-106	12/1/97	12/1/97	10,000	0
WATER	AN-101	12/1/97	12/1/97	10,000	0
WATER	AP-106	12/1/97	12/1/97	11,000	0
WATER	SY-102	12/1/97	12/1/97	33,000	0
WCE88	AN-101	12/1/97	12/1/97	40,000	0
WNE88	AP-106	12/1/97	12/1/97	42,000	0
WNNW88	SY-102	12/1/97	12/1/97	131,000	0
WATER	AP-107	12/20/97	12/20/97	35,000	0
SY-102	AP-107	12/26/97	12/28/97	520,000	21
AP-106	AP-104	12/25/97	12/30/97	996,600	35
34L87	AP-106	1/1/98	1/1/98	10,000	0
BPTCO	AP-106	1/1/98	1/1/98	11,000	0
EVAPF	AP-106	1/1/98	1/1/98	10,000	0
SPN87	SY-102	1/1/98	1/1/98	6,000	0
TAL88	AP-106	1/1/98	1/1/98	4,000	0
WATER	AP-106	1/1/98	1/1/98	4,000	0
WATER	AN-101	1/1/98	1/1/98	10,000	0
WATER	AP-106	1/1/98	1/1/98	10,000	0
WATER	SY-102	1/1/98	1/1/98	37,000	0
WCE88	AN-101	1/1/98	1/1/98	40,000	0
WNE88	AP-106	1/1/98	1/1/98	38,000	0
WNNW88	SY-102	1/1/98	1/1/98	146,000	0
EVAPF	AP-106	2/1/98	2/1/98	10,000	0
WATER	AP-106	2/1/98	2/1/98	8,000	0
WATER	AN-101	2/1/98	2/1/98	10,000	0
WATER	SY-102	2/1/98	2/1/98	35,000	0
WCE88	AN-101	2/1/98	2/1/98	40,000	0
WNE88	AP-106	2/1/98	2/1/98	33,000	0
WNNW88	SY-102	2/1/98	2/1/98	140,000	0
34L87	AP-106	3/1/98	3/1/98	10,000	0
BPTCO	AP-106	3/1/98	3/1/98	11,000	0
EVAPF	AP-106	3/1/98	3/1/98	10,000	0
WATER	AP-106	3/1/98	3/1/98	5,000	0
WATER	AP-106	3/1/98	3/1/98	7,000	0
WATER	AN-101	3/1/98	3/1/98	10,000	0
WATER	SY-102	3/1/98	3/1/98	31,000	0
WCE88	AN-101	3/1/98	3/1/98	40,000	0
WNE88	AP-106	3/1/98	3/1/98	26,000	0
WNNW88	SY-102	3/1/98	3/1/98	124,000	0
WATER	AP-104	3/20/98	3/20/98	35,000	0
SY-102	AP-104	3/25/98	3/27/98	520,000	21
AP-104	AW-102	3/25/98	3/30/98	998,000	33
242-A	AW-106	3/28/98	4/1/98	180,100	31
242-A	LERF	3/28/98	4/1/98	877,800	0
AW-102	242-A	3/28/98	4/1/98	1,058,000	31
EVAPF	AP-106	4/1/98	4/1/98	10,000	0
SPN87	SY-102	4/1/98	4/1/98	6,000	0
TAL88	AP-106	4/1/98	4/1/98	4,000	0
WATER	AP-106	4/1/98	4/1/98	5,000	0
WATER	AN-101	4/1/98	4/1/98	25,000	0
WATER	SY-102	4/1/98	4/1/98	36,000	0
WCE88	AN-101	4/1/98	4/1/98	101,000	0
WNE88	AP-106	4/1/98	4/1/98	20,000	0
WNNW88	SY-102	4/1/98	4/2/98	146,000	0
34L87	AP-106	5/1/98	5/1/98	10,000	0
BPTCO	AP-106	5/1/98	5/1/98	11,000	0
EVAPF	AP-106	5/1/98	5/1/98	10,000	0
WATER	AP-106	5/1/98	5/1/98	4,000	0
WATER	AP-106	5/1/98	5/1/98	5,000	0
WATER	SY-102	5/1/98	5/1/98	5,000	0
WATER	AN-101	5/1/98	5/1/98	24,000	0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	5/1/98	5/1/98	37,000	0
WCE88	AN-101	5/1/98	5/1/98	95,000	0
WCW88	SY-102	5/1/98	5/1/98	19,000	0
WNE88	AP-106	5/1/98	5/1/98	20,000	0
WNW88	SY-102	5/1/98	5/2/98	147,000	0
AP-107	AW-102	5/25/98	5/30/98	1,104,000	40
242-A	AW-106	5/28/98	6/1/98	448,700	39
242-A	LERF	5/28/98	6/1/98	655,200	0
AW-102	242-A	5/28/98	6/1/98	1,104,000	39
EVAPF	AP-106	6/1/98	6/1/98	10,000	0
WATER	AP-106	6/1/98	6/1/98	4,000	0
WATER	SY-102	6/1/98	6/1/98	5,000	0
WATER	AN-101	6/1/98	6/1/98	7,000	0
WATER	SY-102	6/1/98	6/1/98	36,000	0
WCE88	AN-101	6/1/98	6/1/98	28,000	0
WCW88	SY-102	6/1/98	6/1/98	19,000	0
WNE88	AP-106	6/1/98	6/1/98	16,000	0
WNW88	SY-102	6/1/98	6/2/98	142,000	0
EVAPF	AW-102	6/3/98	6/3/98	35,000	0
WATER	AP-104	6/20/98	6/20/98	35,000	0
AW-106	AP-105	6/23/98	6/26/98	341,000	17
SY-102	AP-104	6/25/98	6/27/98	520,000	21
34L87	AP-106	7/1/98	7/1/98	10,000	0
EVAPF	AP-106	7/1/98	7/1/98	10,000	0
SPN87	SY-102	7/1/98	7/1/98	6,000	0
TAL88	AP-106	7/1/98	7/1/98	4,000	0
WATER	SY-102	7/1/98	7/1/98	3,000	0
WATER	AP-106	7/1/98	7/1/98	3,000	0
WATER	AP-106	7/1/98	7/1/98	4,000	0
WATER	AN-101	7/1/98	7/1/98	7,000	0
WATER	SY-102	7/1/98	7/1/98	32,000	0
WCE88	AN-101	7/1/98	7/1/98	28,000	0
WCW88	SY-102	7/1/98	7/1/98	13,000	0
WNE88	AP-106	7/1/98	7/1/98	13,000	0
WNW88	SY-102	7/1/98	7/2/98	127,000	0
AY-102	C-106	7/1/98	7/5/98	920,700	31
BPTCO	AP-106	7/11/98	7/11/98	11,000	0
EVAPF	AP-106	8/1/98	8/1/98	10,000	0
WATER	AP-106	8/1/98	8/1/98	2,000	0
WATER	SY-102	8/1/98	8/1/98	3,000	0
WATER	AN-101	8/1/98	8/1/98	7,000	0
WATER	SY-102	8/1/98	8/1/98	30,000	0
WCE88	AN-101	8/1/98	8/1/98	28,000	0
WCW88	SY-102	8/1/98	8/1/98	13,000	0
WNE88	AP-106	8/1/98	8/1/98	7,000	0
WNW88	SY-102	8/1/98	8/1/98	121,000	0
EVAPF	AP-106	9/1/98	9/1/98	10,000	0
WATER	AP-106	9/1/98	9/1/98	2,000	0
WATER	SY-102	9/1/98	9/1/98	2,000	0
WATER	AN-101	9/1/98	9/1/98	7,000	0
WATER	SY-102	9/1/98	9/1/98	34,000	0
WCE88	AN-101	9/1/98	9/1/98	28,000	0
WCW88	SY-102	9/1/98	9/1/98	8,000	0
WNE88	AP-106	9/1/98	9/1/98	7,000	0
WNW88	SY-102	9/1/98	9/2/98	137,000	0
WATER	AP-107	9/20/98	9/20/98	35,000	0
SY-102	AP-107	9/25/98	9/27/98	520,000	21
AP-101	AW-103	9/25/98	9/28/98	625,000	27
34L87	AP-106	10/1/98	10/1/98	10,000	0
EVAPF	AP-106	10/1/98	10/1/98	10,000	0
PXTCO	AP-106	10/1/98	10/1/98	5,000	0
SPN87	SY-102	10/1/98	10/1/98	7,000	0
TAL88	AP-106	10/1/98	10/1/98	4,000	0
TNS88	AP-106	10/1/98	10/1/98	750	250
WATER	AP-106	10/1/98	10/1/98	1,000	0
WATER	SY-102	10/1/98	10/1/98	2,000	0
WATER	AN-101	10/1/98	10/1/98	7,000	0
WATER	SY-102	10/1/98	10/1/98	30,000	0
WCE88	AN-101	10/1/98	10/1/98	28,000	0
WCW88	SY-102	10/1/98	10/1/98	8,000	0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WESP	AP-106	10/1/98	10/1/98	5,000	0
WNE88	AP-106	10/1/98	10/1/98	3,000	0
WNW88	SY-102	10/1/98	10/1/98	121,000	0
ZNL87	SY-102	10/1/98	10/1/98	4,000	0
WATER	AP-106	10/2/98	10/2/98	3,000	0
WATER	SY-102	10/2/98	10/2/98	5,000	0
WATER	AP-106	10/2/98	10/2/98	5,000	0
EVAPF	AW-102	10/4/98	10/4/98	50,000	0
AW-102	AW-106	10/9/98	10/9/98	150,000	6
AP-104	AW-102	10/5/98	10/11/98	1,107,000	43
AW-104	AP-107	10/9/98	10/11/98	540,000	18
AW-104	AP-104	10/18/98	10/18/98	164,000	6
AP-101	AW-104	10/21/98	10/23/98	460,000	20
AW-106	AP-101	10/29/98	10/30/98	289,000	13
EVAPF	AP-106	11/1/98	11/1/98	10,000	0
WATER	SY-102	11/1/98	11/1/98	1,000	0
WATER	AN-101	11/1/98	11/1/98	7,000	0
WATER	SY-102	11/1/98	11/1/98	30,000	0
WCE88	AN-101	11/1/98	11/1/98	28,000	0
WCW88	SY-102	11/1/98	11/1/98	3,000	0
WNE88	AP-106	11/1/98	11/1/98	2,000	0
WNW88	SY-102	11/1/98	11/1/98	120,000	0
AW-106	AW-102	11/5/98	11/5/98	150,000	9
242-A	LERP	11/4/98	11/9/98	589,600	0
242-A	AW-106	11/4/98	11/9/98	602,900	46
AW-102	242-A	11/4/98	11/9/98	1,193,000	46
C-106	AY-102	7/15/98	11/10/98	809,000	15,169
EVAPF	AP-106	12/1/98	12/1/98	10,000	0
WATER	SY-102	12/1/98	12/1/98	1,000	0
WATER	AN-101	12/1/98	12/1/98	6,000	0
WATER	SY-102	12/1/98	12/1/98	29,000	0
WCE88	AN-101	12/1/98	12/1/98	23,000	0
WCW88	SY-102	12/1/98	12/1/98	3,000	0
WNE88	AP-106	12/1/98	12/1/98	1,000	0
WNW88	SY-102	12/1/98	12/1/98	116,000	0
WATER	AP-104	12/20/98	12/20/98	35,000	0
SY-102	AP-104	12/25/98	12/27/98	520,000	21
AW-106	AP-101	12/25/98	12/28/98	605,000	27
34L87	AP-106	1/1/99	1/1/99	10,000	0
EVAPF	AP-106	1/1/99	1/1/99	10,000	0
SPN87	SY-102	1/1/99	1/1/99	6,000	0
TAL88	AP-106	1/1/99	1/1/99	4,000	0
WATER	AP-106	1/1/99	1/1/99	4,000	0
WATER	AN-101	1/1/99	1/1/99	6,000	0
WATER	SY-102	1/1/99	1/1/99	6,000	0
WATER	SY-102	1/1/99	1/1/99	25,000	0
WCE88	AN-101	1/1/99	1/1/99	23,000	0
WCW88	SY-102	1/1/99	1/1/99	23,000	0
WNW88	SY-102	1/1/99	1/1/99	102,000	0
AP-106	AP-104	1/25/99	1/27/99	385,000	14
EVAPF	AP-106	2/1/99	2/1/99	10,000	0
WATER	AN-101	2/1/99	2/1/99	6,000	0
WATER	SY-102	2/1/99	2/1/99	11,000	0
WATER	SY-102	2/1/99	2/1/99	23,000	0
WCE88	AN-101	2/1/99	2/1/99	23,000	0
WCW88	SY-102	2/1/99	2/1/99	45,000	0
WNW88	SY-102	2/1/99	2/1/99	91,000	0
34L87	AP-106	3/1/99	3/1/99	10,000	0
EVAPF	AP-106	3/1/99	3/1/99	10,000	0
WATER	AN-101	3/1/99	3/1/99	4,000	0
WATER	AP-106	3/1/99	3/1/99	5,000	0
WATER	SY-102	3/1/99	3/1/99	17,000	0
WATER	SY-102	3/1/99	3/1/99	21,000	0
WCE88	AN-101	3/1/99	3/1/99	17,000	0
WCW88	SY-102	3/1/99	3/1/99	67,000	0
WNW88	SY-102	3/1/99	3/1/99	82,000	0
AN-101	AP-103	3/5/99	3/10/99	1,024,000	0
AP-107	AW-102	3/5/99	3/10/99	1,095,000	40
242-A	AW-106	3/8/99	3/12/99	353,000	38
242-A	LERP	3/8/99	3/12/99	741,900	0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	242-A	3/8/99	3/12/99	1,095,000	38
WATER	AP-107	3/20/99	3/20/99	35,000	0
SY-102	AP-107	3/25/99	3/27/99	520,000	21
SPN87	SY-102	4/1/99	4/1/99	6,000	0
TAL88	AP-106	4/1/99	4/1/99	4,000	0
WATER	AP-108	4/1/99	4/1/99	4,000	0
WATER	SY-102	4/1/99	4/1/99	16,000	0
WATER	SY-102	4/1/99	4/1/99	23,000	0
WCW88	SY-102	4/1/99	4/1/99	91,000	0
WNW88	SY-102	4/1/99	4/1/99	64,000	0
EVAPF	AW-102	4/2/99	4/2/99	35,000	0
EVAPF	AP-106	4/3/99	4/3/99	10,000	0
WCE88	AP-108	4/3/99	4/3/99	17,000	0
AW-106	AP-101	4/15/99	4/16/99	222,500	10
AW-106	AW-104	4/25/99	4/25/99	131,100	6
34L87	AP-106	5/1/99	5/1/99	10,000	0
EVAPF	AP-106	5/1/99	5/1/99	10,000	0
WATER	AP-108	5/1/99	5/1/99	4,000	0
WATER	AP-106	5/1/99	5/1/99	4,000	0
WATER	SY-102	5/1/99	5/1/99	15,000	0
WATER	SY-102	5/1/99	5/1/99	21,000	0
WCE88	AP-108	5/1/99	5/1/99	17,000	0
WCW88	SY-102	5/1/99	5/1/99	84,000	0
WNW88	SY-102	5/1/99	5/1/99	60,000	0
EVAPF	AP-106	6/1/99	6/1/99	10,000	0
WATER	AP-108	6/1/99	6/1/99	4,000	0
WATER	SY-102	6/1/99	6/1/99	14,000	0
WATER	SY-102	6/1/99	6/1/99	18,000	0
WCE88	AP-108	6/1/99	6/1/99	17,000	0
WCW88	SY-102	6/1/99	6/1/99	74,000	0
WNW88	SY-102	6/1/99	6/1/99	56,000	0
WATER	AP-107	6/20/99	6/20/99	35,000	0
SY-102	AP-107	6/25/99	6/27/99	520,000	22
34L87	AP-106	7/1/99	7/1/99	10,000	0
EVAPF	AP-106	7/1/99	7/1/99	10,000	0
SPN87	SY-102	7/1/99	7/1/99	6,000	0
TAL88	AP-106	7/1/99	7/1/99	4,000	0
WATER	AP-108	7/1/99	7/1/99	3,000	0
WATER	AP-106	7/1/99	7/1/99	4,000	0
WATER	SY-102	7/1/99	7/1/99	13,000	0
WATER	SY-102	7/1/99	7/1/99	16,000	0
WCE88	AP-108	7/1/99	7/1/99	11,000	0
WCW88	SY-102	7/1/99	7/1/99	65,000	0
WNW88	SY-102	7/1/99	7/1/99	52,000	0
AP-103	AW-102	7/20/99	7/25/99	1,017,000	44
242-A	LERF	7/24/99	7/28/99	90,768	0
242-A	AW-106	7/24/99	7/28/99	928,200	41
AW-102	242-A	7/24/99	7/28/99	1,019,000	41
EVAPF	AP-106	8/1/99	8/1/99	10,000	0
WATER	AP-108	8/1/99	8/1/99	3,000	0
WATER	SY-102	8/1/99	8/1/99	16,000	0
WATER	SY-102	8/1/99	8/1/99	17,000	0
WCE88	AP-108	8/1/99	8/1/99	11,000	0
WCW88	SY-102	8/1/99	8/1/99	65,000	0
WNW88	SY-102	8/1/99	8/1/99	69,000	0
AW-106	AN-106	8/20/99	8/23/99	748,000	33
AW-106	AP-108	8/25/99	8/26/99	180,000	8
EVAPF	AP-106	9/1/99	9/1/99	10,000	0
WATER	AP-108	9/1/99	9/1/99	3,000	0
WATER	SY-102	9/1/99	9/1/99	15,000	0
WATER	SY-102	9/1/99	9/1/99	21,000	0
WCE88	AP-108	9/1/99	9/1/99	11,000	0
WCW88	SY-102	9/1/99	9/1/99	58,000	0
WNW88	SY-102	9/1/99	9/1/99	85,000	0
AW-102	AW-106	9/25/99	9/25/99	99,996	4
WATER	AP-104	9/25/99	9/25/99	35,000	0
SY-102	AP-104	9/25/99	9/27/99	520,000	22
AP-104	AW-102	9/24/99	9/29/99	1,104,000	41
1FL96	AW-105	10/1/99	10/1/99	40,000	0
1KL96	AW-105	10/1/99	10/1/99	30,000	0

Table A.1-1. Complete Transfer List for Case 1.

	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
INS96		AW-105	10/1/99	10/1/99	750	250
34L87		AP-106	10/1/99	10/1/99	10,000	0
EVAPF		AP-106	10/1/99	10/1/99	10,000	0
PXTCO		AP-106	10/1/99	10/1/99	5,000	0
SPN87		SY-102	10/1/99	10/1/99	7,000	0
TAL88		AP-106	10/1/99	10/1/99	6,000	0
TNS88		AP-106	10/1/99	10/1/99	750	250
WATER		AP-108	10/1/99	10/1/99	3,000	0
WATER		SY-102	10/1/99	10/1/99	11,000	0
WATER		SY-102	10/1/99	10/1/99	15,000	0
WCE88		AP-108	10/1/99	10/1/99	11,000	0
WCW88		SY-102	10/1/99	10/1/99	43,000	0
WESF		AP-106	10/1/99	10/1/99	5,000	0
WNW88		SY-102	10/1/99	10/1/99	62,000	0
ZNL87		SY-102	10/1/99	10/1/99	4,000	0
WATER		AP-106	10/2/99	10/2/99	5,000	0
WATER		AP-106	10/2/99	10/2/99	5,000	0
WATER		SY-102	10/2/99	10/2/99	5,000	0
WATER		AW-105	10/2/99	10/2/99	13,000	0
WATER		AW-105	10/2/99	10/2/99	17,000	0
AW-106		AW-104	10/20/99	10/20/99	100,200	4
AW-106		AW-106	10/25/99	10/25/99	99,995	4
AW-106		AN-101	10/26/99	10/26/99	139,200	6
AP-102		AP-103	10/25/99	10/30/99	1,070,000	0
242-A		AW-106	10/26/99	10/30/99	361,400	37
242-A		LERF	10/26/99	10/30/99	576,100	0
AW-102		242-A	10/26/99	10/30/99	937,500	37
EVAPF		AP-106	11/1/99	11/1/99	10,000	0
WATER		AP-108	11/1/99	11/1/99	3,000	0
WATER		SY-102	11/1/99	11/1/99	10,000	0
WATER		SY-102	11/1/99	11/1/99	12,000	0
WCE88		AP-108	11/1/99	11/1/99	11,000	0
WCW88		SY-102	11/1/99	11/1/99	39,000	0
WNW88		SY-102	11/1/99	11/1/99	50,000	0
EVAPF		AW-102	11/17/99	11/17/99	35,000	0
AP-107		AW-102	11/25/99	11/30/99	1,110,000	43
EVAPF		AP-106	12/1/99	12/1/99	10,000	0
WATER		AP-108	12/1/99	12/1/99	1,000	0
WATER		SY-102	12/1/99	12/1/99	10,000	0
WATER		SY-102	12/1/99	12/1/99	11,000	0
WCE88		AP-108	12/1/99	12/1/99	6,000	0
WCW88		SY-102	12/1/99	12/1/99	39,000	0
WNW88		SY-102	12/1/99	12/1/99	43,000	0
242-A		LERF	11/28/99	12/2/99	358,800	0
242-A		AW-106	11/28/99	12/2/99	751,100	40
AW-102		242-A	11/28/99	12/2/99	1,110,000	40
EVAPF		AW-102	12/3/99	12/3/99	35,000	0
AW-106		AN-101	12/25/99	12/28/99	750,000	34
34L87		AP-106	1/1/00	1/1/00	10,000	0
EVAPF		AP-106	1/1/00	1/1/00	10,000	0
SPN87		SY-102	1/1/00	1/1/00	6,000	0
TAL88		AP-106	1/1/00	1/1/00	6,000	0
WATER		AP-108	1/1/00	1/1/00	1,000	0
WATER		AP-106	1/1/00	1/1/00	4,000	0
WATER		SY-102	1/1/00	1/1/00	9,000	0
WATER		SY-102	1/1/00	1/1/00	9,000	0
WCE88		AP-108	1/1/00	1/1/00	6,000	0
WCW88		SY-102	1/1/00	1/1/00	26,000	0
WNW88		SY-102	1/1/00	1/1/00	37,000	0
WATER		AP-104	1/20/00	1/20/00	35,000	0
SY-102		AP-104	1/25/00	1/27/00	520,000	22
EVAPF		AP-106	2/1/00	2/1/00	10,000	0
WATER		AP-108	2/1/00	2/1/00	1,000	0
WATER		SY-102	2/1/00	2/1/00	4,000	0
WATER		SY-102	2/1/00	2/1/00	8,000	0
WCE88		AP-108	2/1/00	2/1/00	5,000	0
WCW88		SY-102	2/1/00	2/1/00	17,000	0
WNW88		SY-102	2/1/00	2/1/00	30,000	0
34L87		AP-106	3/1/00	3/1/00	10,000	0
EVAPF		AP-106	3/1/00	3/1/00	10,000	0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-108	3/1/00	3/1/00	1,000	0
WATER	SY-102	3/1/00	3/1/00	3,000	0
WATER	SY-102	3/1/00	3/1/00	4,000	0
WATER	AP-106	3/1/00	3/1/00	5,000	0
WCE88	AP-108	3/1/00	3/1/00	3,000	0
WCW88	SY-102	3/1/00	3/1/00	13,000	0
WNW88	SY-102	3/1/00	3/1/00	17,000	0
EVAPF	AP-106	4/1/00	4/1/00	10,000	0
SPN87	SY-102	4/1/00	4/1/00	6,000	0
TAL88	AP-106	4/1/00	4/1/00	6,000	0
WATER	AP-108	4/1/00	4/1/00	1,000	0
WATER	SY-102	4/1/00	4/1/00	2,000	0
WATER	SY-102	4/1/00	4/1/00	3,000	0
WCE88	AP-108	4/1/00	4/1/00	3,000	0
WCW88	SY-102	4/1/00	4/1/00	9,000	0
WNW88	SY-102	4/1/00	4/1/00	13,000	0
34L87	AP-106	5/1/00	5/1/00	10,000	0
EVAPF	AP-106	5/1/00	5/1/00	10,000	0
WATER	AP-108	5/1/00	5/1/00	1,000	0
WATER	SY-102	5/1/00	5/1/00	1,000	0
WATER	SY-102	5/1/00	5/1/00	3,000	0
WATER	AP-106	5/1/00	5/1/00	4,000	0
WCE88	AP-108	5/1/00	5/1/00	3,000	0
WCW88	SY-102	5/1/00	5/1/00	6,000	0
WNW88	SY-102	5/1/00	5/1/00	11,000	0
EVAPF	AP-106	6/1/00	6/1/00	10,000	0
WATER	AP-108	6/1/00	6/1/00	1,000	0
WATER	SY-102	6/1/00	6/1/00	1,000	0
WCE88	AP-108	6/1/00	6/1/00	3,000	0
WNW88	SY-102	6/1/00	6/1/00	4,000	0
34L87	AP-106	7/1/00	7/1/00	10,000	0
EVAPF	AP-106	7/1/00	7/1/00	10,000	0
SPN87	SY-102	7/1/00	7/1/00	6,000	0
TAL88	AP-106	7/1/00	7/1/00	5,000	0
WATER	AP-108	7/1/00	7/1/00	1,000	0
WATER	SY-102	7/1/00	7/1/00	1,000	0
WATER	AP-106	7/1/00	7/1/00	4,000	0
WCE88	AP-108	7/1/00	7/1/00	3,000	0
WNW88	SY-102	7/1/00	7/1/00	4,000	0
AP-104	AW-102	7/25/00	7/30/00	1,110,000	43
EVAPF	AP-106	8/1/00	8/1/00	10,000	0
WATER	SY-102	8/1/00	8/1/00	1,000	0
WCE88	AP-108	8/1/00	8/1/00	2,000	0
WNW88	SY-102	8/1/00	8/1/00	4,000	0
242-A	LERF	7/28/00	8/2/00	342,600	0
242-A	AW-106	7/28/00	8/2/00	802,300	39
AW-102	242-A	7/28/00	8/2/00	1,145,000	39
EVAPF	AW-102	8/3/00	8/3/00	35,000	0
AZ-101	AY-101	8/17/00	8/20/00	685,000	0
AZ-101	AP-107	8/20/00	8/20/00	0	0
WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0
EVAPF	AP-106	9/1/00	9/1/00	10,000	0
WCE88	AP-108	9/1/00	9/1/00	1,000	0
AW-106	AP-107	9/25/00	9/29/00	804,000	35
1NS96	AW-105	10/1/00	10/1/00	13,502	4,498
34L87	AP-106	10/1/00	10/1/00	7,000	0
34L87	AP-106	10/1/00	10/1/00	50,000	0
EVAPF	AP-106	10/1/00	10/1/00	120,000	0
PXTCO	AP-106	10/1/00	10/1/00	5,000	0
SPN87	SY-102	10/1/00	10/1/00	25,000	0
TAL88	AP-106	10/1/00	10/1/00	23,000	0
TNS88	AP-106	10/1/00	10/1/00	750	250
WESF	AP-106	10/1/00	10/1/00	5,000	0
ZNL87	SY-102	10/1/00	10/1/00	4,000	0
IKL96	AW-105	10/1/00	10/2/00	302,000	0
WASH-WATER	AP-104	10/1/00	10/2/00	200,000	0
WATER	AP-106	10/2/00	10/2/00	5,000	0
WATER	AW-105	10/2/00	10/2/00	7,000	0
WATER	AW-105	10/2/00	10/2/00	132,000	0
WATER	AP-106	10/2/00	10/3/00	22,000	0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	10/3/00	10/3/00	1,000	0
WATER	AP-106	10/3/00	10/3/00	3,000	0
WATER	SY-102	10/3/00	10/3/00	5,000	0
AP-106	AW-102	10/2/00	10/4/00	474,000	16
EVAPF	AW-102	10/4/00	10/4/00	50,000	0
AP-106	AW-102	10/5/00	10/5/00	10,000	0
AP-106	AW-102	10/6/00	10/6/00	71,998	2
AP-106	AW-102	10/7/00	10/7/00	180,300	6
AW-105	AW-102	10/6/00	10/8/00	414,000	14
AP-106	AW-102	10/8/00	10/8/00	0	0
AW-105	AW-102	10/9/00	10/10/00	213,200	7
AZ-101	AP-107	10/9/00	10/10/00	143,200	0
242-A	AW-106	10/5/00	10/12/00	92,234	52
242-A	LERF	10/5/00	10/12/00	1,391,000	0
AW-102	242-A	10/5/00	10/12/00	1,483,000	52
WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0
AP-104	AP-102	10/15/00	10/16/00	200,000	1
AP-107	AW-102	10/13/00	10/17/00	917,400	0
AW-106	AP-107	10/25/00	10/25/00	110,000	5
EVAPF	AW-102	11/3/00	11/3/00	35,000	0
AZ-101	AP-107	11/30/00	12/1/00	140,200	0
WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0
AW-106	AW-105	1/1/01	1/2/01	283,200	13
AZ-101	AP-107	1/21/01	1/21/01	142,900	0
WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0
AP-102	AP-106	2/15/01	2/16/01	200,500	1
AN-105	AP-102	3/17/01	3/20/01	542,400	7,895
AN-105	AP-102	3/17/01	3/20/01	686,500	294
LERF	AN-105-PUMP	3/17/01	3/20/01	154,100	0
AN-105	AP-104	3/21/01	3/24/01	542,400	7,895
AN-105	AP-104	3/21/01	3/24/01	686,500	294
LERF	AN-105-PUMP	3/21/01	3/24/01	154,100	0
AP-107	AN-105	3/24/01	3/26/01	423,200	16
AP-108	AN-105	3/27/01	3/28/01	356,500	8
AP-106	AP-108	3/29/01	3/30/01	214,000	1,044
AP-108	AN-105	3/31/01	4/1/01	214,200	926
242-A	LERF	4/17/01	4/21/01	321,500	0
242-A	AW-106	4/17/01	4/21/01	630,800	40
AW-102	242-A	4/17/01	4/21/01	952,300	40
AN-105	AW-102	4/22/01	4/27/01	917,400	0
WATER	AW-102	5/1/01	5/1/01	35,000	0
EVAPF	AW-102	5/3/01	5/3/01	35,000	0
AW-105	AP-107	5/15/01	5/16/01	283,200	12
AW-106	AP-107	6/15/01	6/18/01	630,700	29
AP-102	AP-106	7/10/01	7/14/01	686,500	282
AP-104	AP-108	7/14/01	7/18/01	686,500	282
34L87	AN-105	10/1/01	10/1/01	50,000	0
EVAPF	AN-105	10/1/01	10/1/01	120,000	0
SPN87	SY-102	10/1/01	10/1/01	25,000	0
TAL88	AN-105	10/1/01	10/1/01	23,000	0
TNS88	AN-105	10/1/01	10/1/01	750	250
WATER	AN-105	10/1/01	10/1/01	35,000	0
WESF	AN-105	10/1/01	10/1/01	5,000	0
ZML87	SY-102	10/1/01	10/1/01	4,000	0
WATER	SY-102	10/2/01	10/2/01	5,000	0
WATER	AN-105	10/2/01	10/2/01	5,000	0
WATER	AN-105	10/2/01	10/2/01	22,000	0
AN-104	AP-102	10/1/01	10/4/01	502,200	12,513
AN-104	AP-102	10/1/01	10/4/01	684,700	702
LERF	AN-104-PUMP	10/1/01	10/4/01	200,800	0
242-A	LERF	10/3/01	10/8/01	354,000	0
242-A	AW-106	10/3/01	10/8/01	633,600	39
AW-102	242-A	10/3/01	10/8/01	987,600	39
AN-104	AP-104	10/5/01	10/8/01	502,200	12,513
AN-104	AP-104	10/5/01	10/8/01	684,700	702
LERF	AN-104-PUMP	10/5/01	10/8/01	200,800	0
AW-106	AW-102	10/8/01	10/12/01	633,500	27
242-A	LERF	10/26/01	10/29/01	190,700	0
242-A	AW-106	10/26/01	10/29/01	442,700	27
AW-102	242-A	10/26/01	10/29/01	633,500	27

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPP	AW-102	11/3/01	11/3/01	35,000	0
AZ-102	AY-101	11/14/01	11/15/01	204,000	0
AZ-102	AP-107	11/16/01	11/16/01	181,800	0
WASH-WATER	AZ-102	11/17/01	11/18/01	213,000	0
AP-107	AN-104	1/1/02	1/6/02	1,096,000	65
AZ-102	AN-105	1/6/02	1/6/02	127,700	0
WASH-WATER	AZ-102	1/8/02	1/9/02	213,000	0
AZ-102	AN-105	2/27/02	2/28/02	210,300	0
WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0
AZ-102	AN-105	4/20/02	4/21/02	211,800	0
WASH-WATER	AZ-102	4/22/02	4/23/02	213,000	0
AN-105	AW-102	4/21/02	4/26/02	870,200	0
AZ-101	PIHLW FEED TANK	5/17/02	5/17/02	134,300	5,079
AZ-102	AN-105	6/12/02	6/13/02	212,500	0
WASH-WATER	AZ-102	6/14/02	6/14/02	110,000	0
AW-106	AN-105	7/15/02	7/17/02	442,700	21
34L87	AN-105	10/1/02	10/1/02	50,000	0
EVAPP	AN-105	10/1/02	10/1/02	120,000	0
SPN87	SY-102	10/1/02	10/1/02	25,000	0
TAL88	AN-105	10/1/02	10/1/02	24,000	0
TNS88	AN-105	10/1/02	10/1/02	750	250
WATER	AN-105	10/1/02	10/1/02	35,000	0
WESF	AN-105	10/1/02	10/1/02	5,000	0
ZNL87	SY-102	10/1/02	10/1/02	3,000	0
WATER	SY-102	10/2/02	10/2/02	1,000	0
WATER	AN-105	10/2/02	10/2/02	5,000	0
WATER	SY-102	10/2/02	10/2/02	5,000	0
WATER	AN-105	10/2/02	10/2/02	22,000	0
EVAPP	AW-102	10/4/02	10/4/02	50,000	0
242-A	LERF	10/24/02	10/29/02	342,000	0
242-A	AW-106	10/24/02	10/29/02	613,500	33
AW-102	242-A	10/24/02	10/29/02	955,500	33
AW-106	AW-102	10/29/02	11/1/02	613,300	22
EVAPP	AW-102	11/3/02	11/3/02	35,000	0
242-A	LERF	11/15/02	11/18/02	234,000	0
242-A	AW-106	11/15/02	11/18/02	414,300	23
AW-102	242-A	11/15/02	11/18/02	648,300	23
AW-106	AW-102	11/18/02	11/20/02	414,200	15
RETURN 1	AP-107	12/5/02	12/5/02	8,702	299
242-A	LERF	12/4/02	12/6/02	150,000	0
242-A	AW-106	12/4/02	12/6/02	264,300	15
AW-102	242-A	12/4/02	12/6/02	414,300	15
AW-106	AW-102	12/6/02	12/8/02	264,200	10
242-A	LERF	12/22/02	12/23/02	96,000	0
242-A	AW-106	12/22/02	12/23/02	168,300	10
AW-102	242-A	12/22/02	12/23/02	264,300	10
AW-106	AW-102	12/23/02	12/24/02	168,300	7
AW-102	AN-105	12/25/02	12/26/02	168,400	7
RETURN 2	AP-107	1/3/03	1/3/03	8,671	331
AP-102	AP-106	1/5/03	1/9/03	684,700	686
AP-104	AP-108	1/9/03	1/12/03	684,700	686
AW-101	AP-102	1/10/03	1/14/03	537,200	13,013
AW-101	AP-102	1/10/03	1/14/03	845,400	13,013
LERF	AW-101-PUMP	1/10/03	1/14/03	308,100	0
AW-101	AP-104	1/15/03	1/19/03	537,200	13,013
AW-101	AP-104	1/15/03	1/19/03	845,400	13,013
LERF	AW-101-PUMP	1/15/03	1/19/03	308,100	0
AW-105	AW-101	2/15/03	2/17/03	442,700	20
PIHLW FEED TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079
AZ-101	PIHLW FEED TANK	2/21/03	2/21/03	134,300	5,079
AY-102	AZ-101	2/24/03	3/1/03	819,600	16,032
RETURN 1	AP-107	6/28/03	6/28/03	8,677	326
RETURN 2	AP-107	8/7/03	8/7/03	8,671	332
34L87	AN-105	10/1/03	10/1/03	7,000	0
34L87	AN-105	10/1/03	10/1/03	50,000	0
EVAPP	AN-105	10/1/03	10/1/03	120,000	0
SPN87	SY-102	10/1/03	10/1/03	25,000	0
TAL88	AN-105	10/1/03	10/1/03	24,000	0
TNS88	AN-105	10/1/03	10/1/03	750	250
WATER	AN-105	10/1/03	10/1/03	35,000	0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WESF	AN-105	10/1/03	10/1/03	5,000	0
ZNL57	SY-102	10/1/03	10/1/03	3,000	0
WATER	AN-105	10/2/03	10/2/03	3,000	0
WATER	AN-105	10/2/03	10/2/03	5,000	0
WATER	SY-102	10/2/03	10/2/03	5,000	0
WATER	AN-105	10/2/03	10/2/03	22,000	0
AP-102	AP-106	9/29/03	10/3/03	740,300	1,581
AN-105	AW-102	10/1/03	10/6/03	911,300	270
AP-104	AP-108	10/3/03	10/7/03	740,300	1,581
AN-103	AP-102	10/4/03	10/7/03	436,600	28,133
AN-103	AP-102	10/4/03	10/7/03	738,300	549
LERF	AN-103-PUMP	10/4/03	10/7/03	264,900	0
AN-103	AP-104	10/8/03	10/11/03	436,600	28,133
AN-103	AP-104	10/8/03	10/11/03	738,300	549
LERF	AN-103-PUMP	10/8/03	10/11/03	264,900	0
AZ-101	AN-105	10/28/03	10/31/03	622,700	0
WASH-WATER	AZ-101	10/31/03	11/2/03	324,000	0
EVAPF	AW-102	11/3/03	11/3/03	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079
AZ-102	PIHLW FEED TANK	11/14/03	11/14/03	123,900	5,202
RETURN 1	AP-107	12/14/03	12/14/03	8,670	331
AZ-101	AN-105	12/21/03	12/22/03	320,000	0
WASH-WATER	AZ-101	12/24/03	12/25/03	324,000	0
RETURN 2	AP-107	1/11/04	1/11/04	8,672	330
242-A	LERF	4/4/04	4/9/04	338,100	0
242-A	AW-106	4/4/04	4/9/04	605,100	33
AW-102	242-A	4/4/04	4/9/04	943,100	33
AW-106	AW-102	4/9/04	4/12/04	605,000	22
RETURN 1	AP-107	4/28/04	4/28/04	8,672	330
242-A	LERF	4/26/04	4/29/04	216,300	0
242-A	AW-106	4/26/04	4/29/04	388,800	22
AW-102	242-A	4/26/04	4/29/04	605,100	22
AW-106	AW-102	4/29/04	5/1/04	388,800	15
AP-102	AP-106	5/4/04	5/7/04	753,200	1,687
WASH-WATER	AP-102	5/8/04	5/8/04	118,100	0
AP-104	AP-108	5/7/04	5/11/04	753,200	1,687
WASH-WATER	AP-104	5/12/04	5/12/04	118,100	0
RETURN 2	AP-107	5/14/04	5/14/04	8,676	330
242-A	LERF	5/15/04	5/17/04	139,700	0
242-A	AW-106	5/15/04	5/17/04	249,200	15
AW-102	242-A	5/15/04	5/17/04	388,900	15
AW-106	AW-102	5/17/04	5/18/04	249,100	10
AX-103	AN-103	1/10/04	5/28/04	310,200	2,846
242-A	LERF	6/1/04	6/3/04	90,000	0
242-A	AW-106	6/1/04	6/3/04	159,200	10
AW-102	242-A	6/1/04	6/3/04	249,200	10
AW-106	AW-102	6/3/04	6/4/04	159,200	7
AW-102	AW-106	6/5/04	6/6/04	159,300	7
AP-102	AN-105	5/27/04	6/11/04	209,500	9,168
AN-105	AW-102	6/6/04	6/11/04	915,200	0
AP-104	AN-105	6/12/04	6/13/04	209,500	9,168
WASH-CAUSTIC	AP-102	6/13/04	6/13/04	103,400	0
WASH-CAUSTIC	AP-104	6/14/04	6/14/04	126,400	0
AZ-101	AN-105	6/13/04	6/15/04	322,300	0
AP-101	AP-102	6/15/04	6/17/04	502,400	23
AP-101	AP-102	6/15/04	6/17/04	557,700	23
LERF	AP-101-PUMP	6/15/04	6/17/04	55,267	0
WASH-WATER	AZ-101	6/16/04	6/18/04	433,600	0
AW-104	AP-102	6/19/04	6/19/04	109,000	5
AP-101	AP-104	6/18/04	6/21/04	614,000	28
AP-101	AP-104	6/18/04	6/21/04	681,600	28
LERF	AP-101-PUMP	6/18/04	6/21/04	67,548	0
RETURN 1	AP-107	6/21/04	6/21/04	8,676	331
AW-104	AP-104	6/22/04	6/22/04	133,200	6
242-A	LERF	6/26/04	7/1/04	330,000	0
242-A	AW-106	6/26/04	7/1/04	585,100	32
AW-102	242-A	6/26/04	7/1/04	915,100	32
RETURN 2	AP-107	7/3/04	7/3/04	8,674	331
AW-106	AW-102	7/1/04	7/5/04	744,300	28
242-A	LERF	7/19/04	7/23/04	267,400	0

HNF-2321
Revision 0

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	7/19/04	7/23/04	476,900	28
AW-102	242-A	7/19/04	7/23/04	744,400	28
AW-106	AW-102	7/23/04	7/25/04	476,800	19
PIHLW FEED TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202
AZ-102	PIHLW FEED TANK	8/7/04	8/8/04	123,900	5,202
RETURN 1	AP-107	8/10/04	8/10/04	8,675	331
C-103	AN-103	5/28/04	8/11/04	271,800	10,423
242-A	LERF	8/8/04	8/11/04	171,200	0
242-A	AW-106	8/8/04	8/11/04	305,700	19
AW-102	242-A	8/8/04	8/11/04	477,000	19
AW-106	AW-102	8/11/04	8/12/04	305,700	13
RETURN 2	AP-107	8/22/04	8/22/04	8,674	331
242-A	LERF	8/26/04	8/28/04	76,605	0
242-A	AW-106	8/26/04	8/28/04	229,100	13
AW-102	242-A	8/26/04	8/28/04	305,800	13
AW-106	AW-101	8/28/04	8/29/04	229,100	11
C-104	AY-102	8/1/04	9/8/04	279,100	9,724
AW-101	AW-104	9/15/04	9/16/04	276,800	13
RETURN 1	AP-107	9/30/04	9/30/04	8,675	331
34L87	AN-105	10/1/04	10/1/04	50,000	0
EVAPF	AN-105	10/1/04	10/1/04	120,000	0
SPN87	SY-102	10/1/04	10/1/04	2,000	0
SPN87	SY-102	10/1/04	10/1/04	23,000	0
TAL88	AN-105	10/1/04	10/1/04	2,000	0
TAL88	AN-105	10/1/04	10/1/04	22,000	0
TNS88	AN-105	10/1/04	10/1/04	750	250
WATER	AN-105	10/1/04	10/1/04	35,000	0
WESP	AN-105	10/1/04	10/1/04	5,000	0
ZNL87	SY-102	10/1/04	10/1/04	3,000	0
IFL96	AW-105	10/1/04	10/2/04	200,000	0
WATER	AN-105	10/2/04	10/2/04	4,000	0
WATER	SY-102	10/2/04	10/2/04	5,000	0
WATER	AN-105	10/2/04	10/2/04	22,000	0
WATER	AW-105	10/2/04	10/2/04	88,000	0
WATER	SY-102	10/2/04	10/3/04	1,000	0
WATER	AN-105	10/3/04	10/3/04	1,000	0
EVAPF	AW-102	10/4/04	10/4/04	50,000	0
AN-105	AW-102	10/1/04	10/5/04	831,800	267
RETURN 2	AP-107	10/11/04	10/11/04	8,674	331
EVAPF	AW-102	11/3/04	11/3/04	35,000	0
RETURN 1	AP-107	11/19/04	11/19/04	8,675	331
A-102	AN-103	8/11/04	11/30/04	100,600	744
RETURN 2	AP-107	11/30/04	11/30/04	8,674	331
RETURN 1	AP-107	1/8/05	1/9/05	8,675	331
AN-103	AW-103	1/19/05	1/19/05	3,896	104
AN-103	AP-105	1/19/05	1/19/05	3,897	104
AN-103	AN-104	1/19/05	1/19/05	19,895	529
RETURN 2	AP-107	1/19/05	1/19/05	8,674	331
AN-103	AP-103	1/19/05	1/20/05	43,355	1,152
AN-103	AN-101	1/20/05	1/21/05	169,300	4,495
AN-103	AP-101	1/21/05	1/25/05	878,900	23,322
AP-102	AP-106	2/18/05	2/22/05	769,000	1,140
AY-101	AP-102	2/23/05	2/24/05	283,600	12
AP-104	AP-108	2/22/05	2/26/05	940,100	1,153
AY-101	AP-104	2/27/05	2/28/05	279,700	11
RETURN 1	AP-107	3/1/05	3/1/05	8,675	331
RETURN 2	AP-107	3/13/05	3/13/05	8,675	331
C-105	AN-105	11/30/04	3/24/05	827,500	31,875
242-A	LERF	4/4/05	4/9/05	329,800	0
242-A	AW-106	4/4/05	4/9/05	584,100	32
AW-102	242-A	4/4/05	4/9/05	914,000	32
AW-106	AW-102	4/9/05	4/12/05	584,000	21
RETURN 1	AP-107	4/27/05	4/27/05	8,670	330
242-A	LERF	4/26/05	4/29/05	210,000	0
242-A	AW-106	4/26/05	4/29/05	374,200	21
AW-102	242-A	4/26/05	4/29/05	584,200	21
AW-106	AW-102	4/29/05	5/1/05	374,100	14
PIHLW FEED TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202
AZ-101	PIHLW FEED TANK	5/2/05	5/2/05	127,200	3,269
RETURN 2	AP-107	5/9/05	5/9/05	8,679	331

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	LERF	3/15/05	3/17/05	134,900	0
242-A	AW-106	3/15/05	3/17/05	239,300	14
AW-102	242-A	3/15/05	3/17/05	374,200	14
AW-106	AW-102	3/17/05	3/18/05	239,300	10
242-A	LERF	6/2/05	6/3/05	85,871	0
242-A	AW-106	6/2/05	6/3/05	153,500	10
AW-102	242-A	6/2/05	6/3/05	239,300	10
AW-106	AW-102	6/3/05	6/4/05	153,400	7
AW-102	AN-105	6/5/05	6/6/05	153,600	7
RETURN 1	AP-107	6/23/05	6/23/05	8,670	330
A-104	AN-103	3/24/05	7/3/05	29,827	832
RETURN 2	AP-107	7/5/05	7/5/05	8,679	331
C-204	AN-103	7/3/05	7/10/05	3,775	55
C-201	AN-103	7/10/05	7/16/05	2,464	59
AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360
RETURN 1	AP-107	8/19/05	8/19/05	8,670	330
AX-104	AN-103	7/16/05	8/20/05	18,516	572
RETURN 2	AP-107	8/31/05	8/31/05	8,679	331
34L87	AN-105	10/1/05	10/1/05	50,000	0
EVAPF	AN-105	10/1/05	10/1/05	120,000	0
SPN87	SY-102	10/1/05	10/1/05	25,000	0
TAL88	AN-105	10/1/05	10/1/05	24,000	0
TNS88	AN-105	10/1/05	10/1/05	750	250
WATER	AN-105	10/1/05	10/1/05	35,000	0
WESE	AN-105	10/1/05	10/1/05	5,000	0
ZNL87	SY-102	10/1/05	10/1/05	3,000	0
WATER	SY-102	10/2/05	10/2/05	1,000	0
WATER	AN-105	10/2/05	10/2/05	5,000	0
WATER	SY-102	10/2/05	10/2/05	5,000	0
WATER	AN-105	10/2/05	10/2/05	22,000	0
RETURN 1	AP-107	10/15/05	10/15/05	8,670	330
RETURN 2	AP-107	10/27/05	10/27/05	8,679	331
AW-105	AN-105	11/1/05	11/2/05	288,100	10
EVAPF	AW-102	11/3/05	11/3/05	35,000	0
PIHLW FEED TANK	LHW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269
SY-102	AW-105	11/15/05	11/17/05	573,800	22
AZ-101	PIHLW FEED TANK	11/16/05	11/17/05	127,200	3,269
AX-102	AN-103	8/20/05	12/8/05	87,597	897
RETURN 1	AP-107	12/11/05	12/11/05	8,670	330
WATER	SY-102	12/15/05	12/17/05	426,000	0
AN-105	AW-102	12/17/05	12/21/05	874,800	0
AW-105	AN-105	12/15/05	12/23/05	573,800	22
RETURN 2	AP-107	12/23/05	12/23/05	8,679	331
AP-106	LAW-CONTRACTOR-1	6/1/02	12/31/05	3,634,000	5,468
AP-102	AP-106	12/31/05	1/2/06	283,500	48
SY-102	AW-105	1/1/06	1/3/06	535,600	22,049
AN-107	AP-102	1/2/06	1/4/06	481,700	22
AN-107	AP-102	1/2/06	1/4/06	554,000	22
LERF	AN-107-PUMP	1/2/06	1/4/06	72,259	0
RETURN 2	AP-107	2/18/06	2/18/06	8,679	331
AW-105	AN-105	3/1/06	3/2/06	280,600	10
AP-108	LAW-CONTRACTOR-2	6/1/02	3/6/06	3,805,000	5,473
AP-104	AP-108	3/6/06	3/8/06	279,600	41
AP-106	LAW-CONTRACTOR-1	1/2/06	3/11/06	283,500	83
AN-107	AP-104	3/9/06	3/11/06	481,700	22
AN-107	AP-104	3/9/06	3/11/06	554,000	22
LERF	AN-107-PUMP	3/9/06	3/11/06	72,260	0
AP-102	AP-106	3/11/06	3/12/06	169,400	8
AN-103	AP-101	3/16/06	3/17/06	210,200	4,029
AN-103	AW-104	3/17/06	3/17/06	0	0
AN-103	AW-105	4/1/06	4/3/06	466,400	8,930
AP-102	AP-106	4/8/06	4/10/06	384,600	18
AN-102	AP-102	4/11/06	4/14/06	481,700	23
AN-102	AP-102	4/11/06	4/14/06	770,700	23
LERF	AN-102-PUMP	4/11/06	4/14/06	289,000	0
242-A	LERF	5/6/06	5/11/06	326,000	0
242-A	AW-106	5/6/06	5/11/06	583,800	33
AW-102	242-A	5/6/06	5/11/06	909,800	33
AP-108	LAW-CONTRACTOR-2	3/8/06	5/14/06	279,600	70
AW-106	AW-102	5/11/06	5/14/06	583,700	23

Table A.1-1. Complete Transfer List for Case 1.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AP-104	AP-108	5/14/06	5/15/06	169,400	8
242-A	LERF	5/28/06	5/31/06	210,000	0
242-A	AW-106	5/28/06	5/31/06	373,900	23
AW-102	242-A	5/28/06	5/31/06	583,900	23
PIHLW FEED TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269
AW-106	AW-102	5/31/06	6/2/06	373,800	16
AZ-101	PIHLW FEED TANK	6/2/06	6/3/06	127,200	3,269
AP-104	AP-108	6/11/06	6/13/06	384,600	17
AN-102	AP-104	6/14/06	6/17/06	481,700	23
AN-102	AP-104	6/14/06	6/17/06	770,700	23
LERF	AN-102-PUMP	6/14/06	6/17/06	289,000	0
242-A	LERF	6/16/06	6/18/06	133,700	0
242-A	AW-106	6/16/06	6/18/06	240,200	15
AW-102	242-A	6/16/06	6/18/06	373,900	15
AW-106	AW-101	6/18/06	6/19/06	240,200	11
AZ-102	AN-105	6/23/06	6/24/06	159,500	0
WASH-WATER	AZ-102	6/24/06	6/25/06	324,000	0
AN-105	AW-102	6/24/06	6/28/06	839,300	0
AZ-102	AN-105	8/13/06	8/15/06	320,100	0
WASH-WATER	AZ-102	8/16/06	8/18/06	324,000	0
AP-102	AP-106	8/21/06	8/25/06	770,700	23
AN-106	AP-102	8/26/06	8/29/06	547,800	24
AN-106	AP-102	8/26/06	8/29/06	646,400	24
LERF	AN-106-PUMP	8/26/06	8/29/06	98,603	0
34L87	AN-105	10/1/06	10/1/06	7,000	0
34L87	AN-105	10/1/06	10/1/06	50,000	0
EVAPF	AN-105	10/1/06	10/1/06	120,000	0
SPN87	SY-102	10/1/06	10/1/06	25,000	0
TAL88	AN-105	10/1/06	10/1/06	25,000	0
TNS88	AN-105	10/1/06	10/1/06	750	250
WATER	AN-105	10/1/06	10/1/06	35,000	0
WESP	AN-105	10/1/06	10/1/06	5,000	0
WATER	AN-105	10/2/06	10/2/06	3,000	0
WATER	AN-105	10/2/06	10/2/06	5,000	0
WATER	SY-102	10/2/06	10/2/06	5,000	0
WATER	AN-105	10/2/06	10/2/06	22,000	0
EVAPF	AW-102	10/4/06	10/4/06	50,000	0
AP-104	AP-108	10/24/06	10/28/06	770,700	23
EVAPF	AW-102	11/3/06	11/3/06	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269
AZ-101	PIHLW FEED TANK	12/18/06	12/18/06	127,200	3,269
AN-106	AP-104	12/18/06	12/22/06	547,800	24
AN-106	AP-104	12/18/06	12/22/06	646,400	24
LERF	AN-106-PUMP	12/18/06	12/22/06	98,603	0
LERF	SY-101-PUMP	12/19/06	12/24/06	532,400	0
SY-101	SY-102	12/19/06	12/24/06	537,800	5,486
SY-101	SY-102	12/19/06	12/24/06	1,082,000	611
242-A	LERF	12/26/06	12/31/06	330,400	0
242-A	AW-106	12/26/06	12/31/06	594,100	34
AW-102	242-A	12/26/06	12/31/06	924,500	34
AW-106	AW-102	12/31/06	1/3/07	594,000	23
SY-102	AN-102	1/1/07	1/4/07	1,027,000	1,532
LERF	SY-101-PUMP	1/12/07	1/17/07	532,400	0
SY-101	SY-102	1/12/07	1/17/07	537,800	5,486
SY-101	SY-102	1/12/07	1/17/07	1,082,000	611
242-A	LERF	1/17/07	1/20/07	213,700	0
242-A	AW-106	1/17/07	1/20/07	380,400	23
AW-102	242-A	1/17/07	1/20/07	594,100	23
AW-106	AW-102	1/20/07	1/22/07	380,300	16
SY-102	AN-107	1/25/07	1/28/07	983,800	641
SY-101	SY-102	2/5/07	2/5/07	0	0
242-A	LERF	2/5/07	2/7/07	136,500	0
242-A	AW-106	2/5/07	2/7/07	244,000	16
AW-102	242-A	2/5/07	2/7/07	380,400	16
AW-106	AW-101	2/7/07	2/8/07	243,900	11
AZ-102	AN-105	10/6/06	2/12/07	322,700	0
AN-105	AW-102	2/8/07	2/12/07	871,400	0
WASH-WATER	AZ-102	2/13/07	2/14/07	150,500	0
RETURN 1	AP-107	3/9/07	3/9/07	8,732	269
AN-103	AN-106	3/22/07	3/24/07	424,700	8,123

Table A.1-1. Complete Transfer List for Case 1.

	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A		LERF	4/5/07	4/10/07	312,000	0
242-A		AW-106	4/5/07	4/10/07	359,500	30
AW-102		242-A	4/5/07	4/10/07	871,500	30
AW-106		AW-102	4/10/07	4/13/07	559,400	20
AP-102		AP-106	4/18/07	4/21/07	646,400	24
AN-102		AP-102	4/22/07	4/27/07	1,013,000	44
242-A		LERF	4/27/07	4/30/07	202,400	0
242-A		AW-106	4/27/07	4/30/07	357,000	20
AW-102		242-A	4/27/07	4/30/07	559,500	20
AW-106		AW-102	4/30/07	5/2/07	356,300	13
LERF		SY-103-PUMP	4/30/07	5/2/07	183,500	0
SY-103		SY-102	4/30/07	5/2/07	350,000	9,759
SY-103		SY-102	4/30/07	5/2/07	537,500	1,449
SY-102		AN-102	5/10/07	5/12/07	720,700	1,528
242-A		LERF	5/16/07	5/18/07	128,900	0
242-A		AW-106	5/16/07	5/18/07	227,500	13
AW-102		242-A	5/16/07	5/18/07	356,400	13
AW-106		AW-102	5/18/07	5/19/07	227,500	8
242-A		LERF	6/2/07	6/3/07	84,000	0
242-A		AW-106	6/2/07	6/3/07	143,500	8
AW-102		242-A	6/2/07	6/3/07	227,500	8
AW-106		AW-102	6/3/07	6/4/07	143,500	6
AW-102		AN-105	6/5/07	6/6/07	143,600	6
AP-104		AP-108	6/21/07	6/24/07	646,400	24
AN-107		AP-104	6/25/07	6/29/07	978,400	43
PIHLW FEED TANK		HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269
LERF		SY-103-PUMP	7/3/07	7/5/07	183,500	0
SY-103		SY-102	7/3/07	7/5/07	350,000	9,759
SY-103		SY-102	7/3/07	7/5/07	537,500	1,449
AZ-101		PIHLW FEED TANK	7/4/07	7/5/07	127,200	3,269
SY-102		AN-107	7/13/07	7/14/07	537,500	1,434
34L87		AN-105	10/1/07	10/1/07	50,000	0
EVAPF		AN-105	10/1/07	10/1/07	120,000	0
SPN87		SY-102	10/1/07	10/1/07	25,000	0
TAL88		AN-105	10/1/07	10/1/07	25,000	0
TNS88		AN-105	10/1/07	10/1/07	750	250
WATER		AN-105	10/1/07	10/1/07	35,000	0
WESF		AN-105	10/1/07	10/1/07	5,000	0
WATER		AN-105	10/2/07	10/2/07	5,000	0
WATER		AN-105	10/2/07	10/2/07	22,000	0
S-103		SY-101	5/9/07	10/31/07	712,300	1,011
EVAPF		AW-102	11/3/07	11/3/07	35,000	0
AN-103		AN-106	11/7/07	11/11/07	664,600	2,116
AP-102		AP-106	11/9/07	11/14/07	1,013,000	44
AN-102		AP-102	11/15/07	11/18/07	707,100	31
SX-113		SY-103	10/6/07	1/11/08	10,322	399
AP-104		AP-108	1/12/08	1/17/08	978,400	43
PIHLW FEED TANK		HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269
AZ-102		PIHLW FEED TANK	1/18/08	1/19/08	137,700	4,774
AN-107		AP-104	1/18/08	1/20/08	524,700	23
SY-101		AN-102	2/16/08	2/20/08	996,600	1,676
AN-103		AN-107	4/19/08	4/22/08	438,500	1,458
AN-102		AN-107	4/22/08	4/24/08	500,300	3,978
SX-112		SY-103	1/11/08	5/22/08	397,100	16,406
AX-101		AN-103	12/8/05	8/15/08	2,149,000	6,072
C-202		AN-103	8/15/08	8/20/08	1,181	28
AP-102		AP-106	9/12/08	9/16/08	707,100	31
SX-110		SY-103	5/22/08	9/24/08	212,700	8,909
34L87		AN-105	10/1/08	10/1/08	50,000	0
EVAPF		AN-105	10/1/08	10/1/08	120,000	0
SPN87		SY-102	10/1/08	10/1/08	25,000	0
TAL88		AN-105	10/1/08	10/1/08	25,000	0
TNS88		AN-105	10/1/08	10/1/08	750	250
WATER		AN-105	10/1/08	10/1/08	35,000	0
WESF		AN-105	10/1/08	10/1/08	5,000	0
WATER		AN-105	10/2/08	10/2/08	5,000	0
WATER		SY-102	10/2/08	10/2/08	5,000	0
WATER		AN-105	10/2/08	10/2/08	22,000	0
EVAPF		AW-102	10/4/08	10/4/08	50,000	0

Table A.1-1. Complete Transfer List for Case 1.

	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPF	AW-102		11/3/08	11/3/08	35,000	0
A-105	AN-103		8/20/08	11/12/08	50,372	1,545
C-203	AN-103		11/12/08	11/18/08	6,307	150
AP-104	AP-108		11/15/08	11/18/08	524,700	23
SX-115	SY-103		9/24/08	11/25/08	42,100	1,556
PIHLW FEED TANK	HLW-CONTRACTOR		1/19/08	12/22/08	137,700	4,774
AZ-102	PIHLW FEED TANK		12/22/08	12/22/08	137,700	4,774
U-202	UA-2		1/3/09	1/10/09	27,411	1,061
U-203	UA-2		1/10/09	1/16/09	13,895	537
C-108	AN-103		11/18/08	2/3/09	83,934	3,840
U-110	UA-2		1/16/09	3/10/09	99,290	4,252
UA-2	SY-102		3/11/09	3/12/09	173,900	5,847
C-111	AN-103		2/3/09	4/17/09	176,500	7,080
AP-106	LAW-CONTRACTOR-1		3/12/06	5/25/09	3,692,000	155
RETURN 1	AP-107		5/26/09	5/26/09	2,727	98
U-110	UA-1		3/10/09	5/27/09	143,800	6,160
UA-1	SY-102		5/28/09	5/29/09	186,800	6,157
U-110	UA-2		5/27/09	5/30/09	4,829	207
AP-108	LAW-CONTRACTOR-2		5/15/06	6/1/09	3,474,000	144
RETURN 2	AP-107		6/2/09	6/2/09	8,591	319
AP-107	AZ-101		6/12/09	6/13/09	289,700	9,938
AN-102	AP-107		6/22/09	6/25/09	608,400	4,834
SY-101	AN-102		6/25/09	6/29/09	1,115,000	1,795
AN-102	AP-107		6/29/09	7/2/09	502,400	885
S-105	SY-101		10/31/07	7/23/09	1,518,000	2,459
U-101	UA-2		5/30/09	7/30/09	27,955	668
34L87	AN-105		10/1/09	10/1/09	7,000	0
34L87	AN-105		10/1/09	10/1/09	50,000	0
EVAPF	AN-105		10/1/09	10/1/09	120,000	0
SPN87	SY-102		10/1/09	10/1/09	25,000	0
TAL88	AN-105		10/1/09	10/1/09	26,000	0
TNS88	AN-105		10/1/09	10/1/09	750	250
WATER	AN-105		10/1/09	10/1/09	35,000	0
WESF	AN-105		10/1/09	10/1/09	5,000	0
WATER	AN-105		10/2/09	10/2/09	3,000	0
WATER	AN-105		10/2/09	10/2/09	5,000	0
WATER	SY-102		10/2/09	10/2/09	5,000	0
WATER	AN-105		10/2/09	10/2/09	22,000	0
AN-105	AW-102		10/1/09	10/5/09	793,700	245
EVAPF	AW-102		11/3/09	11/3/09	35,000	0
U-104	UA-2		7/30/09	11/9/09	50,908	1,221
PIHLW FEED TANK	HLW-CONTRACTOR		12/22/08	11/25/09	137,700	4,774
U-112	UA-2		11/9/09	12/5/09	58,521	2,330
UA-2	SY-102		12/5/09	12/6/09	154,400	4,426
U-112	UA-1		12/5/09	1/17/10	102,000	4,061
U-204	UA-1		1/17/10	1/23/10	13,004	503
U-201	UA-1		1/23/10	1/27/10	13,912	538
UA-1	SY-102		1/28/10	1/28/10	146,500	5,102
U-201	UA-2		1/27/10	1/30/10	13,499	522
U-106	UA-2		1/30/10	3/1/10	134,400	338
UA-2	SY-102		3/2/10	3/3/10	151,500	862
U-106	UA-1		3/1/10	4/4/10	149,500	376
242-A	LERF		4/4/10	4/9/10	340,700	0
242-A	AW-106		4/4/10	4/9/10	605,100	32
AW-102	242-A		4/4/10	4/9/10	945,800	32
AW-106	AW-102		4/9/10	4/12/10	605,000	21
242-A	LERF		4/26/10	4/29/10	216,300	0
242-A	AW-106		4/26/10	4/29/10	388,800	21
AW-102	242-A		4/26/10	4/29/10	605,200	21
AW-106	AW-102		4/29/10	5/1/10	388,700	14
U-106	UA-2		4/4/10	5/7/10	149,500	376
242-A	LERF		5/15/10	5/17/10	140,000	0
242-A	AW-106		5/15/10	5/17/10	248,900	14
AW-102	242-A		5/15/10	5/17/10	388,800	14
AW-106	AW-102		5/17/10	5/19/10	248,800	9
242-A	LERF		6/2/10	6/3/10	90,000	0
242-A	AW-106		6/2/10	6/3/10	158,900	9
AW-102	242-A		6/2/10	6/3/10	248,900	9
AW-106	AW-102		6/3/10	6/4/10	158,800	6
AW-102	AN-105		6/5/10	6/6/10	159,000	6

Table A.1-1. Complete Transfer List for Case 1.

	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
34L87		AN-105	10/1/10	10/1/10	50,000	0
SPN87		SY-102	10/1/10	10/1/10	25,000	0
TAL88		AN-105	10/1/10	10/1/10	26,000	0
TNS88		AN-105	10/1/10	10/1/10	750	250
WATER		AN-105	10/1/10	10/1/10	25,000	0
WATER		AN-105	10/1/10	10/1/10	35,000	0
WESF		AN-105	10/1/10	10/1/10	5,000	0
EVAPF		AN-105	10/1/10	10/2/10	120,000	0
WATER		AN-105	10/2/10	10/2/10	5,000	0
WATER		SY-102	10/2/10	10/2/10	5,000	0
WATER		AN-105	10/2/10	10/2/10	22,000	0
EVAPF		AW-102	10/4/10	10/4/10	50,000	0
EVAPF		AW-102	11/3/10	11/3/10	35,000	0
WATER		AN-105	1/1/11	1/1/11	25,000	0
BY-110		BA-3	1/3/11	2/8/11	147,400	2,633
TX-109		TA-5	1/3/11	2/10/11	144,100	5,925
TY-101		TA-4	1/3/11	2/22/11	146,500	3,494
T-106		TA-6	1/3/11	3/2/11	74,648	2,929
B-112		BA-1	1/3/11	3/9/11	75,213	1,083
BY-110		BA-4	2/8/11	3/16/11	147,400	2,633
TX-109		TA-3	2/10/11	3/19/11	144,100	5,925
T-101		TA-6	3/2/11	3/25/11	61,377	2,346
WATER		AN-105	4/1/11	4/1/11	25,000	0
BX-102		BA-2	1/3/11	4/4/11	52,548	2,443
B-111		BA-1	3/9/11	4/9/11	72,630	2,383
TY-101		TA-2	2/22/11	4/13/11	146,500	3,494
BY-110		BA-5	3/16/11	4/21/11	147,400	2,633
TX-109		TA-1	3/19/11	4/26/11	144,100	5,925
BX-112		BA-2	4/4/11	5/2/11	67,370	2,937
BA-3		AP-104	6/1/11	6/2/11	155,600	2,631
BA-4		AP-108	6/1/11	6/2/11	155,600	2,631
BA-1		AP-104	6/2/11	6/2/11	157,300	3,464
BA-2		AP-104	6/2/11	6/3/11	174,500	5,377
BA-5		AP-108	6/2/11	6/3/11	155,600	2,631
AN-102		AP-102	6/1/11	6/4/11	613,100	1,079
AN-103		AP-106	6/1/11	6/6/11	1,099,000	17,131
AN-103		AP-102	6/6/11	6/6/11	4,514	69
SY-103		AN-102	6/4/11	6/8/11	1,081,000	35,223
B-111		BA-6	4/9/11	6/11/11	145,200	4,764
AN-102		AP-102	6/8/11	6/11/11	482,400	15,338
BA-6		AP-108	6/11/11	6/12/11	139,400	4,762
AN-102		AP-104	6/11/11	6/14/11	598,600	19,020
AN-102		AP-108	6/14/11	6/14/11	2,579	81
SY-101		AN-102	6/14/11	6/18/11	1,114,000	2,136
AN-102		AP-108	6/18/11	6/22/11	631,600	1,643
WATER		AN-105	7/1/11	7/1/11	25,000	0
BY-110		BA-4	6/2/11	7/8/11	147,300	2,631
BX-112		BA-3	6/2/11	8/2/11	143,600	6,262
A-106		AN-103	4/17/09	8/8/11	253,300	5,796
B-111		BA-1	6/11/11	8/12/11	145,100	4,761
SX-111		SY-103	11/25/08	8/13/11	451,500	19,767
BY-110		BA-5	7/8/11	8/13/11	147,300	2,631
B-111		BA-6	8/12/11	8/13/11	719	24
BX-112		BA-2	8/2/11	9/4/11	78,662	3,430
BY-110		BA-6	8/13/11	9/18/11	146,500	2,618
B-103		BA-2	9/4/11	9/22/11	41,507	78

HNF-2321
Revision 0

Table A.1-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 1.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
X	AP-102	AP-103	10/25/99	10/30/99	1,070,000	0	Empty 2AP
X	AP-104	AW-102	7/25/00	7/30/00	1,110,000	43	Empty 4AP
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Pre-Stage Envelope B
	WASH-WATER	AP-104	10/1/00	10/2/00	200,000	0	Flush Water to 4AP
X	AP-106	AW-102	10/2/00	10/4/00	474,000	16	Empty 6AP
X	AP-106	AW-102	10/5/00	10/5/00	10,000	0	Empty 6AP
X	AP-106	AW-102	10/6/00	10/6/00	71,998	2	Empty 6AP
X	AP-106	AW-102	10/7/00	10/7/00	180,300	6	Empty 6AP
	AP-104	AP-102	10/15/00	10/16/00	200,000	1	Flush 4AP
	AP-102	AP-106	2/15/01	2/16/01	200,500	1	Flush 2AP
	AN-105	AP-102	3/17/01	3/20/01	542,400	7,895	Retrieve/Stage LAW Batch 1, Contractor 1, Envelope A
	LERF	AN-105-PUMP	3/17/01	3/20/01	154,100	0	Dilution Water
	AN-105	AP-102	3/17/01	3/20/01	686,500	294	As-received Ghost
	AN-105	AP-104	3/21/01	3/24/01	542,400	7,895	Retrieve/Stage LAW Batch 1, Contractor 2, Envelope A
	LERF	AN-105-PUMP	3/21/01	3/24/01	154,100	0	Dilution Water
	AN-105	AP-104	3/21/01	3/24/01	686,500	294	As-received Ghost
X	AP-108	AN-105	3/27/01	3/28/01	356,500	8	Empty 8AP
	AP-106	AP-108	3/29/01	3/30/01	214,000	1,044	Flush 6AP
	AP-108	AN-105	3/31/01	4/1/01	214,200	926	Flush 8AP
	AP-102	AP-106	7/10/01	7/14/01	686,500	282	Deliver LAW Batch 1, Contractor 1
	AP-104	AP-108	7/14/01	7/18/01	686,500	282	Deliver LAW Batch 1, Contractor 2
	AN-104	AP-102	10/1/01	10/4/01	502,200	12,513	Retrieve/Stage LAW Batch 2, Contractor 1, Envelope A
	LERF	AN-104-PUMP	10/1/01	10/4/01	200,800	0	Dilution Water
	AN-104	AP-102	10/1/01	10/4/01	684,700	702	As-received Ghost
	AN-104	AP-104	10/5/01	10/8/01	502,200	12,513	Retrieve/Stage LAW Batch 2, Contractor 2, Envelope A
	LERF	AN-104-PUMP	10/5/01	10/8/01	200,800	0	Dilution Water
	AN-104	AP-104	10/5/01	10/8/01	684,700	702	As-received Ghost
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Pre-Stage Envelope B
	RETURN_1	AP-107	12/5/02	12/5/02	8,702	299	Returns From Contractor 1
	RETURN_2	AP-107	1/3/03	1/3/03	8,671	331	Returns From Contractor 2
	AP-102	AP-106	1/5/03	1/9/03	684,700	686	Deliver LAW Batch 2, Contractor 1
	AP-104	AP-108	1/9/03	1/12/03	684,700	686	Deliver LAW Batch 2, Contractor 2
	AW-101	AP-102	1/10/03	1/14/03	537,200	13,013	Retrieve/Stage LAW Batch 3, Contractor 1, Envelope A
	LERF	AW-101-PUMP	1/10/03	1/14/03	308,100	0	Dilution Water
	AW-101	AP-102	1/10/03	1/14/03	845,400	13,013	As-received Ghost
	AW-101	AP-104	1/15/03	1/19/03	537,200	13,013	Retrieve/Stage LAW Batch 3, Contractor 2, Envelope A
	LERF	AW-101-PUMP	1/15/03	1/19/03	308,100	0	Dilution Water
	AW-101	AP-104	1/15/03	1/19/03	845,400	13,013	As-received Ghost
	RETURN_1	AP-107	6/28/03	6/28/03	8,677	326	Returns From Contractor 1
	RETURN_2	AP-107	8/7/03	8/7/03	8,671	332	Returns From Contractor 2
	AP-102	AP-106	9/29/03	10/3/03	740,300	1,581	Deliver LAW Batch 3, Contractor 1
	AP-104	AP-108	10/3/03	10/7/03	740,300	1,581	Deliver LAW Batch 3, Contractor 2
	AN-103	AP-102	10/4/03	10/7/03	436,600	28,133	Retrieve/Stage LAW Batch 4, Contractor 1, Envelope A
	LERF	AN-103-PUMP	10/4/03	10/7/03	264,900	0	Dilution Water
	AN-103	AP-102	10/4/03	10/7/03	738,300	549	As-received Ghost
	AN-103	AP-104	10/8/03	10/11/03	436,600	28,133	Retrieve/Stage LAW Batch 4, Contractor 2, Envelope A
	LERF	AN-103-PUMP	10/8/03	10/11/03	264,900	0	Dilution Water
	AN-103	AP-104	10/8/03	10/11/03	738,300	549	As-received Ghost
	RETURN_1	AP-107	12/14/03	12/14/03	8,670	331	Returns From Contractor 1
	RETURN_2	AP-107	1/11/04	1/11/04	8,672	330	Returns From Contractor 2
	RETURN_1	AP-107	4/28/04	4/28/04	8,672	330	Returns From Contractor 1
	AP-102	AP-106	5/4/04	5/7/04	753,200	1,687	Deliver LAW Batch 4, Contractor 1
	WASH-WATER	AP-102	5/8/04	5/8/04	118,100	0	Flush Water to 2AP
	AP-104	AP-108	5/7/04	5/11/04	753,200	1,687	Deliver LAW Batch 4, Contractor 2
	WASH-WATER	AP-104	5/12/04	5/12/04	118,100	0	Flush Water to 4AP
	RETURN_2	AP-107	5/14/04	5/14/04	8,676	330	Returns From Contractor 2

Table A.1-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 1.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AP-102	AN-105	5/27/04	6/11/04	209,500	9,168	Flush 2AP
	AP-104	AN-105	6/12/04	6/13/04	209,500	9,168	Flush 4AP
	WASH-CAUSTIC	AP-102	6/13/04	6/13/04	103,400	0	Shim Caustic for Batch 5, Contractor 1
	WASH-CAUSTIC	AP-104	6/14/04	6/14/04	126,400	0	Shim Caustic for Batch 5, Contractor 2
	AP-101	AP-102	6/15/04	6/17/04	502,400	23	Retrieve/Stage LAW Batch 5, Contractor 1, Envelope A
	LERF	AP-101-PUMP	6/15/04	6/17/04	55,267	0	Dilution Water
	AP-101	AP-102	6/15/04	6/17/04	557,700	23	As-received Ghost
	AW-104	AP-102	6/19/04	6/19/04	109,000	5	Complete Retrieve/Stage LAW Batch 5, Contractor 1, Envelope A
	AP-101	AP-104	6/18/04	6/21/04	614,000	28	Retrieve/Stage LAW Batch 5, Contractor 2, Envelope A
	LERF	AP-101-PUMP	6/18/04	6/21/04	67,548	0	Dilution Water
	AP-101	AP-104	6/18/04	6/21/04	681,600	28	As-received Ghost
	RETURN_1	AP-107	6/21/04	6/21/04	8,676	331	Returns From Contractor 1
	AW-104	AP-104	6/22/04	6/22/04	133,200	6	Complete Retrieve/Stage LAW Batch 5, Contractor 2, Envelope A
	RETURN_2	AP-107	7/3/04	7/3/04	8,674	331	Returns From Contractor 2
	RETURN_1	AP-107	8/10/04	8/10/04	8,675	331	Returns From Contractor 1
	RETURN_2	AP-107	8/22/04	8/22/04	8,674	331	Returns From Contractor 2
	RETURN_1	AP-107	9/30/04	9/30/04	8,675	331	Returns From Contractor 1
	RETURN_2	AP-107	10/11/04	10/11/04	8,674	331	Returns From Contractor 2
	RETURN_1	AP-107	11/19/04	11/19/04	8,675	331	Returns From Contractor 1
	RETURN_2	AP-107	11/30/04	11/30/04	8,674	331	Returns From Contractor 2
	RETURN_1	AP-107	1/8/05	1/9/05	8,675	331	Returns From Contractor 1
	RETURN_2	AP-107	1/19/05	1/19/05	8,674	331	Returns From Contractor 2
	AP-102	AP-106	2/18/05	2/22/05	769,000	1,140	Deliver LAW Batch 5, Contractor 1
	AY-101	AP-102	2/23/05	2/24/05	283,600	12	Stage LAW Batch 6, Contractor 1, Envelope B
	AP-104	AP-108	2/22/05	2/26/05	940,100	1,153	Deliver LAW Batch 5, Contractor 2
	AY-101	AP-104	2/27/05	2/28/05	279,700	11	Stage LAW Batch 6, Contractor 2, Envelope B
	RETURN_1	AP-107	3/1/05	3/1/05	8,679	331	Returns From Contractor 1
	RETURN_2	AP-107	3/13/05	3/13/05	8,676	331	Returns From Contractor 2
	RETURN_1	AP-107	4/27/05	4/27/05	8,670	330	Returns From Contractor 1
	RETURN_2	AP-107	5/9/05	5/9/05	8,679	331	Returns From Contractor 2
	RETURN_1	AP-107	6/23/05	6/23/05	8,670	330	Returns From Contractor 1
	RETURN_2	AP-107	7/5/05	7/5/05	8,679	331	Returns From Contractor 2
	RETURN_1	AP-107	8/19/05	8/19/05	8,670	330	Returns From Contractor 1
	RETURN_2	AP-107	8/31/05	8/31/05	8,679	331	Returns From Contractor 2
	RETURN_1	AP-107	10/15/05	10/15/05	8,670	330	Returns From Contractor 1
	RETURN_2	AP-107	10/27/05	10/27/05	8,679	331	Returns From Contractor 2
X	SY-102	AW-105	11/15/05	11/17/05	573,800	22	Decant Supernate from SY-102
	RETURN_1	AP-107	12/11/05	12/11/05	8,670	330	Returns From Contractor 1
X	WATER	SY-102	12/15/05	12/17/05	426,000	0	Flush Water for 2SY Solids Cleanout
	RETURN_2	AP-107	12/23/05	12/23/05	8,679	331	Returns From Contractor 2
	AP-106	LAW-CONTRACTOR-1	6/1/02	12/31/05	3,634,000	5,468	Complete Processing Envelope A, Contractor 1
	AP-102	AP-106	12/31/05	1/2/06	283,500	48	Deliver LAW Batch 6, Contractor 1
X	SY-102	AW-105	1/1/06	1/3/06	535,600	22,049	Cleanout Solids 2SY
	AN-107	AP-102	1/2/06	1/4/06	481,700	22	Retrieve/Stage LAW Batch 7/8, Contractor 1, Envelope A
	LERF	AN-107-PUMP	1/2/06	1/4/06	72,259	0	Dilution Water
	AN-107	AP-102	1/2/06	1/4/06	554,000	22	As-received Ghost
	RETURN_2	AP-107	2/18/06	2/18/06	8,679	331	Returns From Contractor 2
	AP-108	LAW-CONTRACTOR-2	6/1/02	3/6/06	3,805,000	5,473	Complete Processing Envelope A, Contractor 2
	AP-104	AP-108	3/6/06	3/8/06	279,600	41	Deliver LAW Batch 6, Contractor 2
	AP-106	LAW-CONTRACTOR-1	1/2/06	3/11/06	283,500	83	Complete Processing Envelope B, Contractor 1
	AN-107	AP-104	3/9/06	3/11/06	481,700	22	Retrieve/Stage LAW Batch 7/8, Contractor 2, Envelope A
	LERF	AN-107-PUMP	3/9/06	3/11/06	72,260	0	Dilution Water
	AN-107	AP-104	3/9/06	3/11/06	554,000	22	As-received Ghost
	AP-102	AP-106	3/11/06	3/12/06	169,400	8	Deliver LAW Batch 7, Contractor 1

HNF-2321
Revision 0

Table A.1-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 1.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AP-102	AP-106	4/8/06	4/10/06	384,600	18	Deliver LAW Batch 8, Contractor 1
	AN-102	AP-102	4/11/06	4/14/06	481,700	23	Retrieve/Stage LAW Batch 9, Contractor 1, Envelope C
	LERF	AN-102-PUMP	4/11/06	4/14/06	289,000	0	Dilution Water
	AN-102	AP-102	4/11/06	4/14/06	770,700	23	As-received Ghost
	AP-108	LAW-CONTRACTOR-2	3/8/06	5/14/06	279,600	70	Complete Processing Envelope B, Contractor 2
	AP-104	AP-108	5/14/06	5/15/06	169,400	8	Deliver LAW Batch 7, Contractor 2
	AP-104	AP-108	6/11/06	6/13/06	384,600	17	Deliver LAW Batch 8, Contractor 2
	AN-102	AP-104	6/14/06	6/17/06	481,700	23	Retrieve/Stage LAW Batch 9, Contractor 2, Envelope C
	LERF	AN-102-PUMP	6/14/06	6/17/06	289,000	0	Dilution Water
	AN-102	AP-104	6/14/06	6/17/06	770,700	23	As-received Ghost
	AP-102	AP-106	8/21/06	8/25/06	770,700	23	Deliver LAW Batch 9, Contractor 1
	AN-106	AP-102	8/26/06	8/29/06	547,800	24	Retrieve/Stage LAW Batch 10, Contractor 1, Envelope C
	LERF	AN-106-PUMP	8/26/06	8/29/06	98,603	0	Dilution Water
	AN-106	AP-102	8/26/06	8/29/06	646,400	24	As-received Ghost
	AP-104	AP-108	10/24/06	10/28/06	770,700	23	Deliver LAW Batch 9, Contractor 2
	AN-106	AP-104	12/18/06	12/22/06	547,800	24	Retrieve/Stage LAW Batch 10, Contractor 2, Envelope C
	LERF	AN-106-PUMP	12/18/06	12/22/06	98,603	0	Dilution Water
	AN-106	AP-104	12/18/06	12/22/06	646,400	24	As-received Ghost
	SY-101	SY-102	12/19/06	12/24/06	537,800	5,486	Retrieve LAW Batch 11, Envelope C
	LERF	SY-101-PUMP	12/19/06	12/24/06	532,400	0	Dilution Water
	SY-101	SY-102	12/19/06	12/24/06	1,082,000	611	As-received Ghost
	SY-102	AN-102	1/1/07	1/4/07	1,027,000	1,532	Pre-Stage LAW Batch 11, Envelope C
	SY-101	SY-102	1/12/07	1/17/07	537,800	5,486	Retrieve LAW Batch 11, Envelope C
	LERF	SY-101-PUMP	1/12/07	1/17/07	532,400	0	Dilution Water
	SY-101	SY-102	1/12/07	1/17/07	1,082,000	611	As-received Ghost
	SY-102	AN-107	1/25/07	1/28/07	983,800	641	Pre-Stage LAW Batch 11, Envelope C
	RETURN_1	AP-107	3/9/07	3/9/07	8,732	269	Returns From Contractor 1
	AP-102	AP-106	4/18/07	4/21/07	646,400	24	Deliver LAW Batch 10, Contractor 1
	AN-102	AP-102	4/22/07	4/27/07	1,013,000	44	Stage LAW Batch 11, Contractor 1, Envelope C
	SY-103	SY-102	4/30/07	5/2/07	350,000	9,759	Retrieve LAW Batch 12, Envelope C
	LERF	SY-103-PUMP	4/30/07	5/2/07	183,500	0	Dilution Water
	SY-103	SY-102	4/30/07	5/2/07	537,500	1,449	As-received Ghost
	SY-102	AN-102	5/10/07	5/12/07	720,700	1,528	Pre-Stage LAW Batch 12, Envelope C
	AP-104	AP-108	6/21/07	6/24/07	646,400	24	Deliver LAW Batch 10, Contractor 2
	AN-107	AP-104	6/25/07	6/29/07	978,400	43	Stage LAW Batch 11, Contractor 2, Envelope C
	SY-103	SY-102	7/3/07	7/5/07	350,000	9,759	Retrieve LAW Batch 12, Envelope C
	LERF	SY-103-PUMP	7/3/07	7/5/07	183,500	0	Dilution Water
	SY-103	SY-102	7/3/07	7/5/07	537,500	1,449	As-received Ghost
	SY-102	AN-107	7/13/07	7/14/07	537,500	1,434	Pre-Stage LAW Batch 12, Envelope C
	AP-102	AP-106	11/9/07	11/14/07	1,013,000	44	Deliver LAW Batch 11, Contractor 1
	AN-102	AP-102	11/15/07	11/18/07	707,100	31	Stage LAW Batch 12, Contractor 1, Envelope C
	AP-104	AP-108	11/12/08	11/17/08	978,400	43	Deliver LAW Batch 11, Contractor 2
	AN-107	AP-104	1/18/08	1/20/08	524,700	23	Stage LAW Batch 12, Contractor 2, Envelope C
	AP-102	AP-106	9/12/08	9/16/08	707,100	31	Deliver LAW Batch 12, Contractor 1
	AP-104	AP-108	11/15/08	11/18/08	524,700	23	Deliver LAW Batch 12, Contractor 2
	AP-106	LAW-CONTRACTOR-1	3/12/06	5/25/09	3,692,000	155	Complete Processing Envelope C, Contractor 1
	RETURN_1	AP-107	5/26/09	5/26/09	2,727	98	Returns From Contractor 1
	AP-108	LAW-CONTRACTOR-2	5/15/06	6/1/09	3,474,000	144	Complete Processing Envelope C, Contractor 2
	RETURN_2	AP-107	6/2/09	6/2/09	8,391	319	Returns From Contractor 2
X	AP-107	AZ-101	6/12/09	6/13/09	289,700	9,938	Transfer Returns to AZ-101 (Phase 2 HLW Tank)

Table A.1-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 1.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AY-102	C-106	7/1/98	7/5/98	920,700	31	Sludge "Water" for C-106 Retrieval - Lumped (See Below)
	C-106	AY-102	7/15/98	11/10/98	809,000	15,169	C-106 Retrieval (Project W-320)
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Initial Decant 1AZ
	WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0	First Wash 1AZ
	AZ-101	AP-107	10/9/00	10/10/00	143,200	0	First Decant 1AZ
	WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0	Second Wash 1AZ
	AZ-101	AP-107	11/30/00	12/1/00	140,200	0	Second Decant 1AZ
	WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0	Third Wash 1AZ
	AZ-101	AP-107	1/21/01	1/21/01	142,900	0	Third Decant 1AZ
	WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0	Transfer Water Add 1AZ
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Initial Decant 2AZ
	AZ-102	AP-107	11/16/01	11/16/01	181,800	0	Complete Initial Decant 2AZ
	WASH-WATER	AZ-102	11/17/01	11/18/01	213,000	0	First Wash 2AZ
	AZ-102	AN-105	1/6/02	1/6/02	127,700	0	First Decant 2AZ
	WASH-WATER	AZ-102	1/8/02	1/9/02	213,000	0	Second Wash 2AZ
	AZ-102	AN-105	2/27/02	2/28/02	210,300	0	Second Decant 2AZ
	WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0	Third Wash 2AZ
	AZ-102	AN-105	4/20/02	4/21/02	211,800	0	Third Decant 2AZ
	WASH-WATER	AZ-102	4/22/02	4/23/02	213,000	0	Fourth Wash 2AZ
	AZ-101	PIHLW_FEED_TANK	5/17/02	5/17/02	134,300	5,079	Deliver Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-102	AN-105	6/12/02	6/13/02	212,500	0	Fourth Decant 2AZ
	WASH-WATER	AZ-102	6/14/02	6/14/02	110,000	0	Transfer Water Add 2AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079	Process Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-101	PIHLW_FEED_TANK	2/21/03	2/21/03	134,300	5,079	Deliver Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
X	AY-102	AZ-101	2/24/03	3/1/03	819,600	16,032	Transfer 2AY/6C Slurry to 1AZ for Pretreatment
	AZ-101	AN-105	10/28/03	10/31/03	622,700	0	Initial Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	10/31/03	11/2/03	324,000	0	First Wash 2AY/6C Slurry in 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079	Process Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
	AZ-102	PIHLW_FEED_TANK	11/14/03	11/14/03	123,900	5,202	Deliver Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-101	AN-105	12/21/03	12/22/03	320,000	0	First Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	12/24/03	12/25/03	324,000	0	Second Wash 2AY/6C Slurry in 1AZ
	AZ-101	AN-105	6/13/04	6/15/04	322,300	0	Second Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	6/16/04	6/18/04	433,600	0	Transfer Water Add 1AZ for 2AY/6C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202	Process Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-102	PIHLW_FEED_TANK	8/7/04	8/8/04	123,900	5,202	Deliver Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
C-104	AY-102		8/1/04	9/8/04	279,100	9,724	C-104 Retrieval (Project W-???)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202	Process Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	AZ-101	PIHLW_FEED_TANK	5/2/05	5/2/05	127,200	3,269	Deliver Batch 1 of 2AY/6C from 1AZ, Envelope D (Batch 5 Overall)
	AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360	Transfer 4C Slurry to 2AZ for Pretreatment
	PIHLW_FEED_TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269	Process Batch 1 of 2AY/6C, Envelope D (Batch 5 Overall)
	AZ-101	PIHLW_FEED_TANK	11/16/05	11/17/05	127,200	3,269	Deliver Batch 2 of 2AY/6C from 1AZ, Envelope D (Batch 6 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269	Process Batch 2 of 2AY/6C, Envelope D (Batch 6 Overall)
	AZ-101	PIHLW_FEED_TANK	6/2/06	6/3/06	127,200	3,269	Deliver Batch 3 of 2AY/6C from 1AZ, Envelope D (Batch 7 Overall)
	AZ-102	AN-105	6/23/06	6/24/06	159,500	0	Initial Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	6/24/06	6/25/06	324,000	0	First Wash 4C Slurry in 2AZ
	AZ-102	AN-105	8/13/06	8/15/06	320,100	0	First Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	8/16/06	8/18/06	324,000	0	Second Wash 4C Slurry in 2AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269	Process Batch 3 of 2AY/6C, Envelope D (Batch 7 Overall)

Table A.1-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 1.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AZ-101	PIHLW_FEED_TANK	12/18/06	12/18/06	127,200	3,269	Deliver Batch 4 of 2AY/6C from 1AZ, Envelope D (Batch 8 Overall)
	AZ-102	AN-105	10/6/06	2/12/07	322,700	0	Second Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	2/13/07	2/14/07	150,500	0	Transfer Water Add 2AZ for 4C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269	Process Batch 4 of 2AY/6C, Envelope D (Batch 8 Overall)
	AZ-101	PIHLW_FEED_TANK	7/4/07	7/5/07	127,200	3,269	Deliver Batch 5 of 2AY/6C from 1AZ, Envelope D (Batch 9 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269	Process Batch 5 of 2AY/6C, Envelope D (Batch 9 Overall)
	AZ-102	PIHLW_FEED_TANK	1/18/08	1/19/08	137,700	4,774	Deliver Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774	Process Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	AZ-102	PIHLW_FEED_TANK	12/22/08	12/22/08	137,700	4,774	Deliver Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
X	AP-107	AZ-101	6/12/09	6/13/09	289,700	9,938	LAW Returns to 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774	Process Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
BPTCO	AP-106	10/1/96	10/1/96	11,000	0
34L87	AP-106	10/1/96	10/1/96	10,000	0
WNE88	AP-106	10/1/96	10/1/96	1,000	0
TNS88	AP-106	10/1/96	10/1/96	750	250
TAL88	AP-106	10/1/96	10/1/96	4,000	0
IFL96	AW-105	10/1/96	10/1/96	13,000	0
EVAPF	AP-106	10/1/96	10/1/96	10,000	0
INS96	AW-105	10/1/96	10/1/96	750	250
SPN87	AP-106	10/1/96	10/1/96	7,000	0
WESF	AP-106	10/1/96	10/1/96	5,000	0
WATER	SY-102	10/1/96	10/1/96	5,000	0
ZNL87	SY-102	10/1/96	10/1/96	2,000	0
WNW88	SY-102	10/1/96	10/1/96	19,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	3,000	0
WATER	SY-102	10/2/96	10/2/96	5,000	0
WATER	AW-105	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	12,000	0
EVAPF	AP-106	11/1/96	11/1/96	10,000	0
WNE88	AP-106	11/1/96	11/1/96	1,000	0
BPTCO	AP-106	11/1/96	11/1/96	10,000	0
WATER	SY-102	11/1/96	11/1/96	3,000	0
WNW88	SY-102	11/1/96	11/1/96	14,000	0
EVAPF	AP-106	12/1/96	12/1/96	10,000	0
WNW88	SY-102	12/1/96	12/1/96	14,000	0
WATER	SY-102	12/1/96	12/1/96	3,000	0
WNE88	AP-106	12/1/96	12/1/96	1,000	0
BPTCO	AP-106	12/1/96	12/1/96	11,000	0
EVAPF	AP-106	1/1/97	1/1/97	10,000	0
WNE88	AP-106	1/1/97	1/1/97	1,000	0
WESF	AP-106	1/1/97	1/1/97	5,000	0
SPN87	AP-106	1/1/97	1/1/97	6,000	0
WNW88	SY-102	1/1/97	1/1/97	14,000	0
WATER	SY-102	1/1/97	1/1/97	4,000	0
TAL88	AP-106	1/1/97	1/1/97	4,000	0
BPTCO	AP-106	1/1/97	1/1/97	10,000	0
34L87	AP-106	1/1/97	1/1/97	10,000	0
WATER	AP-106	1/1/97	1/1/97	4,000	0
AW-106	AP-101	1/4/97	1/4/97	69,511	3
AN-106	AP-108	1/11/97	1/12/97	177,000	7
EVAPF	AP-106	2/1/97	2/1/97	10,000	0
BPTCO	AP-106	2/1/97	2/1/97	10,000	0
WATER	SY-102	2/1/97	2/1/97	4,000	0
WNW88	SY-102	2/1/97	2/1/97	14,000	0
EVAPF	AW-102	2/20/97	2/20/97	50,000	0
AP-105	AW-102	2/20/97	2/24/97	942,000	39
PXTCO	AP-106	3/1/97	3/1/97	5,000	0
WNW88	SY-102	3/1/97	3/1/97	16,000	0
WATER	SY-102	3/1/97	3/1/97	4,000	0
WATER	AP-106	3/1/97	3/1/97	5,000	0
34L87	AP-106	3/1/97	3/1/97	10,000	0
BPTCO	AP-106	3/1/97	3/1/97	11,000	0
EVAPF	AP-106	3/1/97	3/1/97	10,000	0
AW-102	242-A	2/26/97	3/2/97	1,027,000	42
242-A	AW-106	2/26/97	3/2/97	622,000	42

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	LERF	2/26/97	3/2/97	405,000	0
EVAPF	AW-102	3/3/97	3/3/97	35,000	0
EVAPF	AP-106	4/1/97	4/1/97	10,000	0
WESF	AP-106	4/1/97	4/1/97	5,000	0
TAL88	AP-106	4/1/97	4/1/97	4,000	0
WATER	SY-102	4/1/97	4/1/97	6,000	0
BPTCO	AP-106	4/1/97	4/1/97	10,000	0
WNE88	AP-106	4/1/97	4/1/97	1,000	0
SPN87	AP-106	4/1/97	4/1/97	6,000	0
WNNW88	SY-102	4/1/97	4/1/97	22,000	0
AW-106	AP-105	4/25/97	4/28/97	617,000	29
AY-101	AP-108	4/25/97	4/29/97	809,000	30
EVAPF	AP-106	5/1/97	5/1/97	10,000	0
34L87	AP-106	5/1/97	5/1/97	10,000	0
WNE88	AP-106	5/1/97	5/1/97	1,000	0
BPTCO	AP-106	5/1/97	5/1/97	11,000	0
WATER	AP-106	5/1/97	5/1/97	4,000	0
WNNW88	SY-102	5/1/97	5/1/97	19,000	0
WATER	SY-102	5/1/97	5/1/97	5,000	0
BPTCO	AP-106	6/1/97	6/1/97	10,000	0
WATER	SY-102	6/1/97	6/1/97	4,000	0
WNNW88	SY-102	6/1/97	6/1/97	16,000	0
WNE88	AP-106	6/1/97	6/1/97	1,000	0
EVAPF	AP-106	6/1/97	6/1/97	10,000	0
34L87	AP-106	7/1/97	7/1/97	10,000	0
WESF	AP-106	7/1/97	7/1/97	5,000	0
WATER	AN-101	7/1/97	7/1/97	5,000	0
WNE88	AP-106	7/1/97	7/1/97	1,000	0
EVAPF	AP-106	7/1/97	7/1/97	10,000	0
WNNW88	SY-102	7/1/97	7/1/97	24,000	0
WATER	SY-102	7/1/97	7/1/97	6,000	0
WATER	AP-106	7/1/97	7/1/97	4,000	0
SPN87	AP-106	7/1/97	7/1/97	6,000	0
TAL88	AP-106	7/1/97	7/1/97	4,000	0
BPTCO	AP-106	7/1/97	7/1/97	11,000	0
WCE88	AN-101	7/1/97	7/1/97	20,000	0
AN-106	AP-108	7/25/97	7/26/97	194,000	7
AP-108	AW-102	7/25/97	7/31/97	1,198,000	42
BPTCO	AP-106	8/1/97	8/1/97	10,000	0
WATER	SY-102	8/1/97	8/1/97	13,000	0
EVAPF	AP-106	8/1/97	8/1/97	10,000	0
WATER	AP-106	8/1/97	8/1/97	4,000	0
WCE88	AN-101	8/1/97	8/1/97	25,000	0
WATER	AN-101	8/1/97	8/1/97	6,000	0
WNE88	AP-106	8/1/97	8/1/97	16,000	0
WNNW88	SY-102	8/1/97	8/1/97	51,000	0
AW-102	242-A	7/28/97	8/2/97	1,198,000	39
242-A	AW-106	7/28/97	8/2/97	346,700	39
242-A	LERF	7/28/97	8/2/97	851,300	0
EVAPF	AW-102	8/3/97	8/3/97	25,000	0
WATER	AP-107	8/20/97	8/20/97	35,000	0
AW-106	AN-106	8/25/97	8/26/97	347,000	16
SY-102	AP-107	8/25/97	8/27/97	520,000	20
EVAPF	AP-106	9/1/97	9/1/97	10,000	0
WATER	SY-102	9/1/97	9/1/97	15,000	0
WATER	AP-106	9/1/97	9/1/97	12,000	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
BPTCO	AP-106	9/1/97	9/1/97	10,000	0
WCE88	AN-101	9/1/97	9/1/97	40,000	0
WNE88	AP-106	9/1/97	9/1/97	46,000	0
WATER	AN-101	9/1/97	9/1/97	10,000	0
WNW88	SY-102	9/1/97	9/1/97	61,000	0
WATER	AP-106	10/1/97	10/1/97	12,000	0
WESF	AP-106	10/1/97	10/1/97	5,000	0
34L87	AP-106	10/1/97	10/1/97	10,000	0
TNS88	AP-106	10/1/97	10/1/97	750	250
TAL88	AP-106	10/1/97	10/1/97	4,000	0
EVAPF	AP-106	10/1/97	10/1/97	10,000	0
WATER	AN-101	10/1/97	10/1/97	10,000	0
34L87	AP-106	10/1/97	10/1/97	7,000	0
BPTCO	AP-106	10/1/97	10/1/97	11,000	0
SPN87	SY-102	10/1/97	10/1/97	7,000	0
WCE88	AN-101	10/1/97	10/1/97	40,000	0
ZNL87	SY-102	10/1/97	10/1/97	4,000	0
PXTCO	AP-106	10/1/97	10/1/97	5,000	0
WNE88	AP-106	10/1/97	10/1/97	46,000	0
WATER	SY-102	10/1/97	10/1/97	28,000	0
WNW88	SY-102	10/1/97	10/1/97	111,000	0
WATER	SY-102	10/2/97	10/2/97	5,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
WATER	SY-102	10/2/97	10/2/97	1,000	0
WASH-CAUSTIC	AN-107	10/2/97	10/2/97	66,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
AY-102	AP-106	10/25/97	10/25/97	35,999	1
WATER	AY-102	10/26/97	10/27/97	176,000	0
EVAPF	AP-106	11/1/97	11/1/97	10,000	0
WATER	SY-102	11/1/97	11/1/97	30,000	0
WNE88	AP-106	11/1/97	11/1/97	46,000	0
WATER	AN-101	11/1/97	11/1/97	10,000	0
WATER	AP-106	11/1/97	11/1/97	12,000	0
WCE88	AN-101	11/1/97	11/1/97	40,000	0
WNW88	SY-102	11/1/97	11/1/97	119,000	0
EVAPF	AP-106	12/1/97	12/1/97	10,000	0
WATER	SY-102	12/1/97	12/1/97	33,000	0
WNE88	AP-106	12/1/97	12/1/97	42,000	0
WCE88	AN-101	12/1/97	12/1/97	40,000	0
WATER	AN-101	12/1/97	12/1/97	10,000	0
WATER	AP-106	12/1/97	12/1/97	11,000	0
WNW88	SY-102	12/1/97	12/1/97	131,000	0
WATER	AP-107	12/20/97	12/20/97	35,000	0
SY-102	AP-107	12/26/97	12/28/97	520,000	21
AP-106	AP-104	12/25/97	12/30/97	996,600	35
34L87	AP-106	1/1/98	1/1/98	10,000	0
TAL88	AP-106	1/1/98	1/1/98	4,000	0
WATER	AP-106	1/1/98	1/1/98	10,000	0
WATER	AP-106	1/1/98	1/1/98	4,000	0
EVAPF	AP-106	1/1/98	1/1/98	10,000	0
SPN87	SY-102	1/1/98	1/1/98	6,000	0
BPTCO	AP-106	1/1/98	1/1/98	11,000	0
WATER	AN-101	1/1/98	1/1/98	10,000	0
WCE88	AN-101	1/1/98	1/1/98	40,000	0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNE88	AP-106	1/1/98	1/1/98	38,000	0
WATER	SY-102	1/1/98	1/1/98	37,000	0
WNW88	SY-102	1/1/98	1/1/98	146,000	0
WATER	SY-102	2/1/98	2/1/98	35,000	0
WATER	AN-101	2/1/98	2/1/98	10,000	0
EVAPF	AP-106	2/1/98	2/1/98	10,000	0
WNE88	AP-106	2/1/98	2/1/98	33,000	0
WATER	AP-106	2/1/98	2/1/98	8,000	0
WCE88	AN-101	2/1/98	2/1/98	40,000	0
WNW88	SY-102	2/1/98	2/2/98	140,000	0
34L87	AP-106	3/1/98	3/1/98	10,000	0
BPTCO	AP-106	3/1/98	3/1/98	11,000	0
WATER	AP-106	3/1/98	3/1/98	5,000	0
WATER	AP-106	3/1/98	3/1/98	7,000	0
EVAPF	AP-106	3/1/98	3/1/98	10,000	0
WATER	SY-102	3/1/98	3/1/98	31,000	0
WCE88	AN-101	3/1/98	3/1/98	40,000	0
WATER	AN-101	3/1/98	3/1/98	10,000	0
WNE88	AP-106	3/1/98	3/1/98	26,000	0
WNW88	SY-102	3/1/98	3/1/98	124,000	0
WATER	AP-104	3/20/98	3/20/98	35,000	0
SY-102	AP-104	3/25/98	3/27/98	520,000	21
AP-104	AW-102	3/25/98	3/30/98	998,000	33
SPN87	SY-102	4/1/98	4/1/98	6,000	0
WATER	SY-102	4/1/98	4/1/98	36,000	0
EVAPF	AP-106	4/1/98	4/1/98	10,000	0
TAL88	AP-106	4/1/98	4/1/98	4,000	0
WATER	AN-101	4/1/98	4/1/98	25,000	0
WNE88	AP-106	4/1/98	4/1/98	20,000	0
WATER	AP-106	4/1/98	4/1/98	5,000	0
WCE88	AN-101	4/1/98	4/1/98	101,000	0
AW-102	242-A	3/28/98	4/1/98	1,058,000	31
242-A	AW-106	3/28/98	4/1/98	180,100	31
242-A	LERF	3/28/98	4/1/98	877,800	0
WNW88	SY-102	4/1/98	4/1/98	146,000	0
34L87	AP-106	5/1/98	5/1/98	10,000	0
BPTCO	AP-106	5/1/98	5/1/98	11,000	0
WATER	AP-106	5/1/98	5/1/98	4,000	0
EVAPF	AP-106	5/1/98	5/1/98	10,000	0
WATER	AP-106	5/1/98	5/1/98	5,000	0
WNE88	AP-106	5/1/98	5/1/98	20,000	0
WATER	AN-101	5/1/98	5/1/98	24,000	0
WCW88	SY-102	5/1/98	5/1/98	19,000	0
WCE88	AN-101	5/1/98	5/1/98	95,000	0
WATER	SY-102	5/1/98	5/1/98	37,000	0
WATER	SY-102	5/1/98	5/1/98	5,000	0
WNW88	SY-102	5/1/98	5/1/98	147,000	0
AP-107	AW-102	5/25/98	5/30/98	1,104,000	40
WATER	AN-101	6/1/98	6/1/98	7,000	0
WCE88	AN-101	6/1/98	6/1/98	28,000	0
WCW88	SY-102	6/1/98	6/1/98	19,000	0
EVAPF	AP-106	6/1/98	6/1/98	10,000	0
WNE88	AP-106	6/1/98	6/1/98	16,000	0
WATER	SY-102	6/1/98	6/1/98	36,000	0
WATER	AP-106	6/1/98	6/1/98	4,000	0
WATER	SY-102	6/1/98	6/1/98	5,000	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	242-A	5/28/98	6/1/98	1,104,000	39
242-A	AW-106	5/28/98	6/1/98	448,700	39
242-A	LERF	5/28/98	6/1/98	655,200	0
WNNW88	SY-102	6/1/98	6/2/98	142,000	0
EVAPF	AW-102	6/3/98	6/3/98	35,000	0
WATER	AP-104	6/20/98	6/20/98	35,000	0
AW-106	AP-105	6/25/98	6/26/98	341,000	17
SY-102	AP-104	6/25/98	6/27/98	520,000	21
EVAPF	AP-106	7/1/98	7/1/98	10,000	0
WNE88	AP-106	7/1/98	7/1/98	13,000	0
WATER	AN-101	7/1/98	7/1/98	7,000	0
WCE88	AN-101	7/1/98	7/1/98	28,000	0
WATER	SY-102	7/1/98	7/1/98	3,000	0
WCW88	SY-102	7/1/98	7/1/98	13,000	0
WATER	SY-102	7/1/98	7/1/98	32,000	0
WATER	AP-106	7/1/98	7/1/98	4,000	0
SPN87	SY-102	7/1/98	7/1/98	6,000	0
34L87	AP-106	7/1/98	7/1/98	10,000	0
WATER	AP-106	7/1/98	7/1/98	3,000	0
TAL88	AP-106	7/1/98	7/1/98	4,000	0
WNNW88	SY-102	7/1/98	7/2/98	127,000	0
AY-102	C-106	7/1/98	7/5/98	920,700	31
BPTCO	AP-106	7/11/98	7/11/98	11,000	0
WATER	AN-101	8/1/98	8/1/98	7,000	0
EVAPF	AP-106	8/1/98	8/1/98	10,000	0
WCE88	AN-101	8/1/98	8/1/98	28,000	0
WATER	SY-102	8/1/98	8/1/98	30,000	0
WATER	AP-106	8/1/98	8/1/98	2,000	0
WNE88	AP-106	8/1/98	8/1/98	7,000	0
WCW88	SY-102	8/1/98	8/1/98	13,000	0
WATER	SY-102	8/1/98	8/1/98	3,000	0
WNNW88	SY-102	8/1/98	8/2/98	121,000	0
WATER	SY-102	9/1/98	9/1/98	2,000	0
WNE88	AP-106	9/1/98	9/1/98	7,000	0
EVAPF	AP-106	9/1/98	9/1/98	10,000	0
WATER	AP-106	9/1/98	9/1/98	2,000	0
WCE88	AN-101	9/1/98	9/1/98	28,000	0
WATER	AN-101	9/1/98	9/1/98	7,000	0
WCW88	SY-102	9/1/98	9/1/98	8,000	0
WATER	SY-102	9/1/98	9/1/98	34,000	0
WNNW88	SY-102	9/1/98	9/1/98	137,000	0
WATER	AP-107	9/20/98	9/20/98	35,000	0
SY-102	AP-107	9/25/98	9/27/98	520,000	21
AP-101	AW-103	9/25/98	9/28/98	625,000	27
WNE88	AP-106	10/1/98	10/1/98	3,000	0
TAL88	AP-106	10/1/98	10/1/98	4,000	0
TNS88	AP-106	10/1/98	10/1/98	750	250
WESF	AP-106	10/1/98	10/1/98	5,000	0
EVAPF	AP-106	10/1/98	10/1/98	10,000	0
PXTCO	AP-106	10/1/98	10/1/98	5,000	0
34L87	AP-106	10/1/98	10/1/98	10,000	0
SPN87	SY-102	10/1/98	10/1/98	7,000	0
WATER	SY-102	10/1/98	10/1/98	2,000	0
WATER	AP-106	10/1/98	10/1/98	1,000	0
ZNL87	SY-102	10/1/98	10/1/98	4,000	0
WCW88	SY-102	10/1/98	10/1/98	8,000	0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	10/1/98	10/1/98	30,000	0
WATER	AN-101	10/1/98	10/1/98	7,000	0
WCE88	AN-101	10/1/98	10/1/98	28,000	0
WNNW88	SY-102	10/1/98	10/1/98	121,000	0
WATER	SY-102	10/2/98	10/2/98	5,000	0
WATER	AP-106	10/2/98	10/2/98	5,000	0
WATER	AP-106	10/2/98	10/2/98	3,000	0
EVAPF	AW-102	10/4/98	10/4/98	50,000	0
AW-102	AW-106	10/9/98	10/9/98	150,000	6
AP-104	AW-102	10/5/98	10/11/98	1,107,000	43
AW-104	AP-107	10/9/98	10/11/98	540,000	18
AW-104	AP-104	10/18/98	10/18/98	164,000	6
AP-101	AW-104	10/21/98	10/23/98	460,000	20
AW-106	AP-101	10/29/98	10/30/98	289,000	13
WATER	SY-102	11/1/98	11/1/98	1,000	0
EVAPF	AP-106	11/1/98	11/1/98	10,000	0
WCE88	AN-101	11/1/98	11/1/98	28,000	0
WATER	AN-101	11/1/98	11/1/98	7,000	0
WNE88	AP-106	11/1/98	11/1/98	2,000	0
WCW88	SY-102	11/1/98	11/1/98	3,000	0
WATER	SY-102	11/1/98	11/1/98	30,000	0
WNNW88	SY-102	11/1/98	11/1/98	120,000	0
AW-106	AW-102	11/5/98	11/5/98	150,000	9
AW-102	242-A	11/4/98	11/9/98	1,193,000	46
242-A	AW-106	11/4/98	11/9/98	602,900	46
242-A	LERF	11/4/98	11/9/98	589,600	0
C-106	AY-102	7/15/98	11/10/98	809,000	15,169
EVAPF	AP-106	12/1/98	12/1/98	10,000	0
WNE88	AP-106	12/1/98	12/1/98	1,000	0
WATER	SY-102	12/1/98	12/1/98	1,000	0
WCW88	SY-102	12/1/98	12/1/98	3,000	0
WCE88	AN-101	12/1/98	12/1/98	23,000	0
WATER	SY-102	12/1/98	12/1/98	29,000	0
WATER	AN-101	12/1/98	12/1/98	6,000	0
WNNW88	SY-102	12/1/98	12/1/98	116,000	0
WATER	AP-104	12/20/98	12/20/98	35,000	0
SY-102	AP-104	12/25/98	12/27/98	520,000	21
AW-106	AP-101	12/25/98	12/28/98	605,000	27
WATER	AP-106	1/1/99	1/1/99	4,000	0
TAL88	AP-106	1/1/99	1/1/99	4,000	0
SPN87	SY-102	1/1/99	1/1/99	6,000	0
WATER	SY-102	1/1/99	1/1/99	25,000	0
WCW88	SY-102	1/1/99	1/1/99	23,000	0
WATER	SY-102	1/1/99	1/1/99	6,000	0
EVAPF	AP-106	1/1/99	1/1/99	10,000	0
34L87	AP-106	1/1/99	1/1/99	10,000	0
WCE88	AN-101	1/1/99	1/1/99	23,000	0
WATER	AN-101	1/1/99	1/1/99	6,000	0
WNNW88	SY-102	1/1/99	1/1/99	102,000	0
AP-106	AP-104	1/25/99	1/27/99	385,000	14
EVAPF	AP-106	2/1/99	2/1/99	10,000	0
WATER	SY-102	2/1/99	2/1/99	11,000	0
WCE88	AN-101	2/1/99	2/1/99	23,000	0
WATER	SY-102	2/1/99	2/1/99	23,000	0
WCW88	SY-102	2/1/99	2/1/99	45,000	0
WATER	AN-101	2/1/99	2/1/99	6,000	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	2/1/99	2/1/99	91,000	0
WATER	SY-102	3/1/99	3/1/99	21,000	0
34L87	AP-106	3/1/99	3/1/99	10,000	0
WATER	SY-102	3/1/99	3/1/99	17,000	0
WATER	AP-106	3/1/99	3/1/99	5,000	0
WCW88	SY-102	3/1/99	3/1/99	67,000	0
WCE88	AN-101	3/1/99	3/1/99	17,000	0
WATER	AN-101	3/1/99	3/1/99	4,000	0
EVAPF	AP-106	3/1/99	3/1/99	10,000	0
WNW88	SY-102	3/1/99	3/1/99	82,000	0
AN-101	AP-103	3/5/99	3/10/99	1,024,000	0
AP-107	AW-102	3/5/99	3/10/99	1,095,000	40
AW-102	242-A	3/8/99	3/12/99	1,095,000	38
242-A	AW-106	3/8/99	3/12/99	353,000	38
242-A	LERF	3/8/99	3/12/99	741,900	0
AP-108	AW-105	3/15/99	3/15/99	500	0
AP-106	AW-105	3/15/99	3/15/99	174,300	6
SY-102	AP-107	3/15/99	3/19/99	790,400	33
WATER	AP-107	3/20/99	3/20/99	35,000	0
AP-107	AW-102	3/19/99	3/23/99	825,500	0
TAL88	AP-107	4/1/99	4/1/99	4,000	0
WATER	AP-107	4/1/99	4/1/99	4,000	0
SPN87	SY-102	4/1/99	4/1/99	6,000	0
WATER	SY-102	4/1/99	4/1/99	23,000	0
WATER	SY-102	4/1/99	4/1/99	16,000	0
WNW88	SY-102	4/1/99	4/1/99	64,000	0
WCW88	SY-102	4/1/99	4/1/99	91,000	0
EVAPF	AW-102	4/2/99	4/2/99	35,000	0
EVAPF	AP-107	4/3/99	4/3/99	10,000	0
WCE88	AP-107	4/3/99	4/3/99	17,000	0
WATER	AP-107	5/1/99	5/1/99	4,000	0
WATER	SY-102	5/1/99	5/1/99	15,000	0
EVAPF	AP-107	5/1/99	5/1/99	10,000	0
34L87	AP-107	5/1/99	5/1/99	10,000	0
WATER	SY-102	5/1/99	5/1/99	21,000	0
WCE88	AP-107	5/1/99	5/1/99	17,000	0
WNW88	SY-102	5/1/99	5/1/99	60,000	0
WATER	AP-107	5/1/99	5/1/99	4,000	0
WCW88	SY-102	5/1/99	5/1/99	84,000	0
AW-106	AN-101	5/15/99	5/16/99	353,600	16
WATER	SY-102	6/1/99	6/1/99	18,000	0
WATER	SY-102	6/1/99	6/1/99	14,000	0
WNW88	SY-102	6/1/99	6/1/99	56,000	0
WATER	AP-107	6/1/99	6/1/99	4,000	0
EVAPF	AP-107	6/1/99	6/1/99	10,000	0
WCW88	SY-102	6/1/99	6/1/99	74,000	0
WCE88	AP-107	6/1/99	6/1/99	17,000	0
WATER	AP-107	6/20/99	6/20/99	35,000	0
TAL88	AP-107	7/1/99	7/1/99	4,000	0
EVAPF	AP-107	7/1/99	7/1/99	10,000	0
WCE88	AP-107	7/1/99	7/1/99	11,000	0
WATER	AP-107	7/1/99	7/1/99	3,000	0
WATER	AP-107	7/1/99	7/1/99	4,000	0
WATER	SY-102	7/1/99	7/1/99	13,000	0
SPN87	SY-102	7/1/99	7/1/99	6,000	0
34L87	AP-107	7/1/99	7/1/99	10,000	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCW88	SY-102	7/1/99	7/1/99	65,000	0
WATER	SY-102	7/1/99	7/1/99	16,000	0
WNW88	SY-102	7/1/99	7/1/99	52,000	0
EVAPF	AP-107	8/1/99	8/1/99	10,000	0
WCE88	AP-107	8/1/99	8/1/99	11,000	0
WATER	SY-102	8/1/99	8/1/99	17,000	0
WATER	AP-107	8/1/99	8/1/99	3,000	0
WCW88	SY-102	8/1/99	8/1/99	65,000	0
WATER	SY-102	8/1/99	8/1/99	16,000	0
WNW88	SY-102	8/1/99	8/1/99	69,000	0
SY-102	AP-107	8/15/99	8/18/99	750,000	32
WATER	SY-102	9/1/99	9/1/99	21,000	0
WATER	AP-107	9/1/99	9/1/99	3,000	0
WCE88	AP-107	9/1/99	9/1/99	11,000	0
WATER	SY-102	9/1/99	9/1/99	15,000	0
EVAPF	AP-107	9/1/99	9/1/99	10,000	0
WCW88	SY-102	9/1/99	9/1/99	58,000	0
WNW88	SY-102	9/1/99	9/1/99	85,000	0
WATER	AP-107	9/20/99	9/20/99	35,000	0
AW-102	242-A	9/20/99	9/24/99	860,500	35
242-A	AW-106	9/20/99	9/24/99	552,800	35
242-A	LERF	9/20/99	9/24/99	307,700	0
AW-106	AW-102	9/25/99	9/28/99	552,700	25
INS96	AW-105	10/1/99	10/1/99	750	250
WATER	SY-102	10/1/99	10/1/99	15,000	0
SPN87	SY-102	10/1/99	10/1/99	7,000	0
IKL96	AW-105	10/1/99	10/1/99	30,000	0
WATER	SY-102	10/1/99	10/1/99	11,000	0
TNS88	AP-107	10/1/99	10/1/99	750	250
WESF	AP-107	10/1/99	10/1/99	5,000	0
WCE88	AP-107	10/1/99	10/1/99	11,000	0
WCW88	SY-102	10/1/99	10/1/99	43,000	0
IFL96	AW-105	10/1/99	10/1/99	40,000	0
WATER	AP-107	10/1/99	10/1/99	3,000	0
ZNL87	SY-102	10/1/99	10/1/99	4,000	0
TAL88	AP-107	10/1/99	10/1/99	6,000	0
PXTCO	AP-107	10/1/99	10/1/99	5,000	0
EVAPF	AP-107	10/1/99	10/1/99	10,000	0
34L87	AP-107	10/1/99	10/1/99	10,000	0
WNW88	SY-102	10/1/99	10/1/99	62,000	0
WATER	SY-102	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	17,000	0
WATER	AP-107	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	13,000	0
WATER	AP-107	10/2/99	10/2/99	5,000	0
AW-102	242-A	10/12/99	10/15/99	552,700	24
242-A	AW-106	10/12/99	10/15/99	453,700	24
242-A	LERF	10/12/99	10/15/99	98,971	0
AP-107	AW-102	10/15/99	10/20/99	917,400	0
WATER	SY-102	11/1/99	11/1/99	12,000	0
WATER	SY-102	11/1/99	11/1/99	10,000	0
EVAPF	AP-107	11/1/99	11/1/99	10,000	0
WCW88	SY-102	11/1/99	11/1/99	39,000	0
WNW88	SY-102	11/1/99	11/1/99	50,000	0
WATER	AP-107	11/1/99	11/1/99	3,000	0
WCE88	AP-107	11/1/99	11/1/99	11,000	0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-106	AN-101	11/15/99	11/17/99	453,700	21
EVAPF	AW-102	11/17/99	11/17/99	35,000	0
WATER	SY-102	12/1/99	12/1/99	10,000	0
WCE88	AP-107	12/1/99	12/1/99	6,000	0
WATER	AP-107	12/1/99	12/1/99	1,000	0
EVAPF	AP-107	12/1/99	12/1/99	10,000	0
WNW88	SY-102	12/1/99	12/1/99	43,000	0
WATER	SY-102	12/1/99	12/1/99	11,000	0
WCW88	SY-102	12/1/99	12/1/99	39,000	0
EVAPF	AW-102	12/3/99	12/3/99	35,000	0
WATER	SY-102	1/1/00	1/1/00	9,000	0
WATER	SY-102	1/1/00	1/1/00	9,000	0
SPN87	SY-102	1/1/00	1/1/00	6,000	0
EVAPF	AP-107	1/1/00	1/1/00	10,000	0
WCE88	AP-107	1/1/00	1/1/00	6,000	0
WCW88	SY-102	1/1/00	1/1/00	26,000	0
WATER	AP-107	1/1/00	1/1/00	1,000	0
34L87	AP-107	1/1/00	1/1/00	10,000	0
WNW88	SY-102	1/1/00	1/1/00	37,000	0
WATER	AP-107	1/1/00	1/1/00	4,000	0
TAL88	AP-107	1/1/00	1/1/00	6,000	0
WATER	AP-107	1/20/00	1/20/00	35,000	0
WATER	SY-102	2/1/00	2/1/00	4,000	0
WATER	SY-102	2/1/00	2/1/00	8,000	0
WNW88	SY-102	2/1/00	2/1/00	30,000	0
WCW88	SY-102	2/1/00	2/1/00	17,000	0
WATER	AP-107	2/1/00	2/1/00	1,000	0
EVAPF	AP-107	2/1/00	2/1/00	10,000	0
WCE88	AP-107	2/1/00	2/1/00	5,000	0
WATER	SY-102	3/1/00	3/1/00	3,000	0
34L87	AP-107	3/1/00	3/1/00	10,000	0
WATER	AP-107	3/1/00	3/1/00	5,000	0
EVAPF	AP-107	3/1/00	3/1/00	10,000	0
WATER	AP-107	3/1/00	3/1/00	1,000	0
WCE88	AP-107	3/1/00	3/1/00	3,000	0
WCW88	SY-102	3/1/00	3/1/00	13,000	0
WNW88	SY-102	3/1/00	3/1/00	17,000	0
WATER	SY-102	3/1/00	3/1/00	4,000	0
SY-102	AP-107	3/15/00	3/18/00	700,000	29
WCE88	AP-107	4/1/00	4/1/00	3,000	0
WATER	AP-107	4/1/00	4/1/00	1,000	0
EVAPF	AP-107	4/1/00	4/1/00	10,000	0
TAL88	AP-107	4/1/00	4/1/00	6,000	0
SPN87	SY-102	4/1/00	4/1/00	6,000	0
WATER	SY-102	4/1/00	4/1/00	2,000	0
WNW88	SY-102	4/1/00	4/1/00	13,000	0
WATER	SY-102	4/1/00	4/1/00	3,000	0
WCW88	SY-102	4/1/00	4/1/00	9,000	0
AW-102	242-A	4/18/00	4/23/00	987,600	40
242-A	AW-106	4/18/00	4/23/00	633,600	40
242-A	LERF	4/18/00	4/23/00	354,000	0
AW-106	AW-102	4/23/00	4/26/00	633,500	28
WATER	SY-102	5/1/00	5/1/00	3,000	0
WATER	AP-107	5/1/00	5/1/00	4,000	0
WATER	SY-102	5/1/00	5/1/00	1,000	0
WNW88	SY-102	5/1/00	5/1/00	11,000	0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCW88	SY-102	5/1/00	5/1/00	6,000	0
WATER	AP-107	5/1/00	5/1/00	1,000	0
WCE88	AP-107	5/1/00	5/1/00	3,000	0
34L87	AP-107	5/1/00	5/1/00	10,000	0
EVAPF	AP-107	5/1/00	5/1/00	10,000	0
AW-102	242-A	5/10/00	5/14/00	633,500	28
242-A	AW-106	5/10/00	5/14/00	504,500	28
242-A	LERF	5/10/00	5/14/00	128,900	0
AP-107	AW-102	5/14/00	5/19/00	917,600	0
WNV88	SY-102	6/1/00	6/1/00	4,000	0
WATER	SY-102	6/1/00	6/1/00	1,000	0
EVAPF	AP-107	6/1/00	6/1/00	10,000	0
WCE88	AP-107	6/1/00	6/1/00	3,000	0
WATER	AP-107	6/1/00	6/1/00	1,000	0
AW-106	AN-101	6/15/00	6/16/00	250,000	12
WCE88	AP-107	7/1/00	7/1/00	3,000	0
WATER	AP-107	7/1/00	7/1/00	1,000	0
EVAPF	AP-107	7/1/00	7/1/00	10,000	0
TAL88	AP-107	7/1/00	7/1/00	5,000	0
SPN87	SY-102	7/1/00	7/1/00	6,000	0
34L87	AP-107	7/1/00	7/1/00	10,000	0
WATER	AP-107	7/1/00	7/1/00	4,000	0
WATER	SY-102	7/1/00	7/1/00	1,000	0
WNV88	SY-102	7/1/00	7/1/00	4,000	0
AW-106	AN-106	7/15/00	7/16/00	254,500	12
WATER	SY-102	8/1/00	8/1/00	1,000	0
EVAPF	AP-107	8/1/00	8/1/00	10,000	0
WCE88	AP-107	8/1/00	8/1/00	2,000	0
WNV88	SY-102	8/1/00	8/1/00	4,000	0
EVAPF	AW-102	8/3/00	8/3/00	35,000	0
AZ-101	AY-101	8/17/00	8/20/00	685,000	0
AZ-101	AP-107	8/20/00	8/20/00	0	0
WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0
EVAPF	AP-107	9/1/00	9/1/00	10,000	0
WCE88	AP-107	9/1/00	9/1/00	1,000	0
AW-105	AP-107	9/15/00	9/16/00	200,000	7
WESF	AP-107	10/1/00	10/1/00	5,000	0
TNS88	AP-107	10/1/00	10/1/00	750	250
INS96	AW-105	10/1/00	10/1/00	13,502	4,498
TAL88	AP-107	10/1/00	10/1/00	23,000	0
34L87	AP-107	10/1/00	10/1/00	50,000	0
34L87	AP-107	10/1/00	10/1/00	7,000	0
ZNL87	SY-102	10/1/00	10/1/00	4,000	0
PXTCO	AP-107	10/1/00	10/1/00	5,000	0
SPN87	SY-102	10/1/00	10/1/00	25,000	0
EVAPF	AP-107	10/1/00	10/1/00	120,000	0
WATER	AP-107	10/2/00	10/2/00	3,000	0
WATER	SY-102	10/2/00	10/2/00	5,000	0
WATER	AW-105	10/2/00	10/2/00	7,000	0
WATER	SY-102	10/2/00	10/2/00	1,000	0
IKL96	AW-105	10/1/00	10/2/00	302,000	0
WATER	AW-105	10/2/00	10/3/00	132,000	0
WATER	AP-107	10/3/00	10/3/00	22,000	0
WATER	AP-107	10/3/00	10/3/00	5,000	0
EVAPF	AW-102	10/4/00	10/4/00	50,000	0
AZ-101	AP-107	10/9/00	10/10/00	143,200	0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0
EVAPF	AW-102	11/3/00	11/3/00	35,000	0
AW-102	242-A	11/16/00	11/21/00	1,038,000	41
242-A	AW-106	11/16/00	11/21/00	665,900	41
242-A	LERF	11/16/00	11/21/00	372,000	0
AW-106	AW-102	11/22/00	11/25/00	665,800	29
AW-102	242-A	12/9/00	12/13/00	665,700	29
242-A	AW-106	12/9/00	12/13/00	496,100	29
242-A	LERF	12/9/00	12/13/00	169,600	0
AP-107	AW-102	12/13/00	12/17/00	800,700	0
AZ-101	AP-107	12/17/00	12/18/00	140,200	0
WASH-WATER	AZ-101	12/19/00	12/20/00	146,000	0
AW-106	AN-106	1/15/01	1/17/01	496,000	23
AZ-101	AP-107	2/7/01	2/7/01	142,900	0
WASH-WATER	AZ-101	2/8/01	2/9/01	138,200	0
AW-102	242-A	4/13/01	4/17/01	800,900	29
242-A	AW-106	4/13/01	4/17/01	512,900	29
242-A	LERF	4/13/01	4/17/01	288,000	0
AW-106	AW-102	4/18/01	4/20/01	512,800	20
WATER	AW-102	5/1/01	5/1/01	35,000	0
EVAPF	AW-102	5/3/01	5/3/01	35,000	0
AW-102	242-A	5/5/01	5/7/01	582,800	22
242-A	AW-106	5/5/01	5/7/01	372,800	22
242-A	LERF	5/5/01	5/7/01	210,000	0
AW-106	AW-102	5/7/01	5/9/01	372,700	15
AW-102	242-A	5/23/01	5/25/01	372,800	15
242-A	AW-106	5/23/01	5/25/01	239,200	15
242-A	LERF	5/23/01	5/25/01	133,600	0
AW-106	AW-102	5/25/01	5/27/01	239,100	10
AW-102	242-A	6/10/01	6/11/01	239,200	10
242-A	AW-106	6/10/01	6/11/01	173,000	10
242-A	LERF	6/10/01	6/11/01	66,177	0
AP-104	AW-102	7/2/01	7/6/01	918,300	0
AW-102	242-A	7/21/01	7/26/01	918,300	35
242-A	AW-106	7/21/01	7/26/01	588,300	35
242-A	LERF	7/21/01	7/26/01	330,000	0
AW-106	AW-102	7/26/01	7/30/01	761,200	32
AW-102	242-A	8/13/01	8/17/01	761,100	32
242-A	AW-106	8/13/01	8/17/01	509,100	32
242-A	LERF	8/13/01	8/17/01	252,000	0
ZNL87	SY-102	10/1/01	10/1/01	4,000	0
TNS88	AP-107	10/1/01	10/1/01	750	250
WESF	AP-107	10/1/01	10/1/01	5,000	0
SPN87	SY-102	10/1/01	10/1/01	25,000	0
TAL88	AP-107	10/1/01	10/1/01	23,000	0
34L87	AP-107	10/1/01	10/1/01	50,000	0
WATER	AP-107	10/1/01	10/1/01	35,000	0
EVAPF	AP-107	10/1/01	10/1/01	120,000	0
WATER	SY-102	10/2/01	10/2/01	5,000	0
AW-106	AW-104	10/1/01	10/2/01	250,000	12
WATER	AP-107	10/2/01	10/2/01	22,000	0
WATER	AP-107	10/2/01	10/2/01	5,000	0
AP-103	AW-102	10/16/01	10/20/01	918,200	0
AP-103	AP-107	11/1/01	11/1/01	98,859	4
EVAPF	AW-102	11/3/01	11/3/01	35,000	0
AW-102	242-A	11/4/01	11/9/01	907,200	39

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	11/4/01	11/9/01	635,300	39
242-A	LERF	11/4/01	11/9/01	271,900	0
AZ-102	AY-101	11/14/01	11/15/01	204,000	0
AZ-102	AP-107	11/16/01	11/16/01	181,800	0
WASH-WATER	AZ-102	11/17/01	11/18/01	213,000	0
WASH-WATER	AP-104	11/19/01	11/20/01	200,000	0
AP-107	AW-102	11/16/01	11/21/01	821,600	0
AP-102	AP-103	11/17/01	11/22/01	1,070,000	0
AP-104	AP-102	12/1/01	12/3/01	385,700	39
AP-102	AP-106	12/15/01	12/17/01	385,700	37
AW-106	AP-107	12/15/01	12/19/01	894,200	42
AN-105	AP-102	1/1/02	1/4/02	542,400	7,895
LERF	AN-105-PUMP	1/1/02	1/4/02	154,100	0
AN-105	AP-102	1/1/02	1/4/02	686,500	294
AN-105	AP-104	1/5/02	1/8/02	542,400	7,895
LERF	AN-105-PUMP	1/5/02	1/8/02	154,100	0
AN-105	AP-104	1/5/02	1/8/02	686,500	294
AP-108	AN-105	1/9/02	1/9/02	0	0
AP-106	AP-108	1/10/02	1/12/02	393,700	684
AP-108	AN-105	1/13/02	1/15/02	393,700	641
AP-102	AP-106	4/26/02	4/30/02	686,500	285
AN-104	AP-102	4/30/02	5/3/02	502,200	12,513
LERF	AN-104-PUMP	4/30/02	5/3/02	200,800	0
AN-104	AP-102	4/30/02	5/3/02	684,700	702
AP-104	AP-108	4/30/02	5/4/02	686,500	285
AN-104	AP-104	5/4/02	5/7/02	502,200	12,513
LERF	AN-104-PUMP	5/4/02	5/7/02	200,800	0
AN-104	AP-104	5/4/02	5/7/02	684,700	702
AP-107	AN-104	5/8/02	5/12/02	903,400	871
AZ-101	PIHLW FEED TANK	5/17/02	5/17/02	134,300	5,079
AW-102	242-A	5/21/02	5/25/02	868,200	32
242-A	AW-106	5/21/02	5/25/02	556,200	32
242-A	LERF	5/21/02	5/25/02	312,000	0
AW-106	AW-102	5/26/02	5/29/02	556,100	22
AW-102	242-A	6/12/02	6/14/02	556,100	22
242-A	AW-106	6/12/02	6/14/02	357,200	22
242-A	LERF	6/12/02	6/14/02	198,900	0
AW-106	AW-102	6/14/02	6/16/02	357,100	15
AW-102	242-A	6/30/02	7/2/02	357,200	15
242-A	AW-106	6/30/02	7/2/02	248,200	15
242-A	LERF	6/30/02	7/2/02	109,000	0
AZ-102	AN-105	7/3/02	7/3/02	127,700	0
WASH-WATER	AZ-102	7/4/02	7/5/02	213,000	0
AZ-102	AN-105	8/23/02	8/25/02	210,300	0
WASH-WATER	AZ-102	8/26/02	8/27/02	213,000	0
WESF	AN-105	10/1/02	10/1/02	5,000	0
ZNL87	SY-102	10/1/02	10/1/02	3,000	0
TNS88	AN-105	10/1/02	10/1/02	750	250
TAL88	AN-105	10/1/02	10/1/02	24,000	0
SPN87	SY-102	10/1/02	10/1/02	25,000	0
WATER	AN-105	10/1/02	10/1/02	35,000	0
34L87	AN-105	10/1/02	10/1/02	50,000	0
EVAPF	AN-105	10/1/02	10/1/02	120,000	0
WATER	AN-105	10/2/02	10/2/02	22,000	0
WATER	SY-102	10/2/02	10/2/02	5,000	0
WATER	AN-105	10/2/02	10/2/02	5,000	0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	10/2/02	10/2/02	1,000	0
EVAPF	AW-102	10/4/02	10/4/02	50,000	0
AN-105	AW-102	10/1/02	10/5/02	918,600	257
AZ-102	AN-105	10/15/02	10/16/02	211,800	0
WASH-WATER	AZ-102	10/17/02	10/18/02	213,000	0
EVAPF	AW-102	11/3/02	11/3/02	35,000	0
AZ-102	AN-105	12/6/02	12/7/02	212,500	0
WASH-WATER	AZ-102	12/9/02	12/9/02	110,000	0
AP-104	AP-108	1/7/03	1/10/03	684,700	686
AP-102	AP-106	1/10/03	1/13/03	684,700	686
AW-101	AP-104	1/11/03	1/15/03	537,200	13,013
LERF	AW-101-PUMP	1/11/03	1/15/03	308,100	0
AW-101	AP-104	1/11/03	1/15/03	845,400	13,013
RETURN 1	AP-107	1/17/03	1/17/03	8,709	292
AW-101	AP-102	1/16/03	1/20/03	537,200	13,013
LERF	AW-101-PUMP	1/16/03	1/20/03	308,100	0
AW-101	AP-102	1/16/03	1/20/03	845,400	13,013
RETURN 2	AP-107	2/19/03	2/19/03	8,669	331
AW-106	AW-101	2/19/03	2/20/03	248,100	11
PIHLW FEED TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079
AZ-101	PIHLW FEED TANK	2/21/03	2/21/03	134,300	5,079
AY-102	AZ-101	2/22/03	2/26/03	819,600	16,032
AW-102	242-A	4/5/03	4/10/03	1,001,000	35
242-A	AW-106	4/5/03	4/10/03	640,800	35
242-A	LERF	4/5/03	4/10/03	360,000	0
AW-106	AW-102	4/11/03	4/14/03	640,700	24
AW-102	242-A	4/28/03	5/1/03	640,900	23
242-A	AW-106	4/28/03	5/1/03	411,000	23
242-A	LERF	4/28/03	5/1/03	229,900	0
AW-106	AW-102	5/1/03	5/3/03	410,900	16
AW-102	242-A	5/17/03	5/19/03	411,000	16
242-A	AW-106	5/17/03	5/19/03	262,100	16
242-A	LERF	5/17/03	5/19/03	148,900	0
AW-106	AW-102	5/19/03	5/21/03	262,100	11
AW-102	242-A	6/4/03	6/5/03	262,100	11
242-A	AW-106	6/4/03	6/5/03	167,500	11
242-A	LERF	6/4/03	6/5/03	94,582	0
AW-106	AW-102	6/5/03	6/6/03	167,500	7
AW-102	AN-105	6/7/03	6/8/03	167,600	7
34L87	AN-105	10/1/03	10/1/03	7,000	0
TNS88	AN-105	10/1/03	10/1/03	750	250
WESF	AN-105	10/1/03	10/1/03	5,000	0
ZNL87	SY-102	10/1/03	10/1/03	3,000	0
SPN87	SY-102	10/1/03	10/1/03	25,000	0
TAL88	AN-105	10/1/03	10/1/03	24,000	0
WATER	AN-105	10/1/03	10/1/03	35,000	0
34L87	AN-105	10/1/03	10/1/03	50,000	0
EVAPF	AN-105	10/1/03	10/1/03	120,000	0
WATER	AN-105	10/2/03	10/2/03	22,000	0
WATER	SY-102	10/2/03	10/2/03	5,000	0
WATER	AN-105	10/2/03	10/2/03	3,000	0
WATER	AN-105	10/2/03	10/2/03	5,000	0
AP-104	AP-108	10/1/03	10/4/03	740,300	1,581
AN-105	AW-102	10/1/03	10/5/03	916,100	271
RETURN 1	AP-107	10/5/03	10/6/03	8,671	332
AP-102	AP-106	10/4/03	10/8/03	740,300	1,581

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AN-103	AP-104	10/5/03	10/8/03	436,600	28,133
LERF	AN-103-PUMP	10/5/03	10/8/03	264,900	0
AN-103	AP-104	10/5/03	10/8/03	738,300	549
AN-103	AP-102	10/9/03	10/12/03	436,600	28,133
LERF	AN-103-PUMP	10/9/03	10/12/03	264,900	0
AN-103	AP-102	10/9/03	10/12/03	738,300	549
RETURN 2	AP-107	10/22/03	10/22/03	8,672	331
AZ-101	AN-105	10/29/03	11/1/03	622,700	0
WASH-WATER	AZ-101	11/1/03	11/2/03	324,000	0
EVAPF	AW-102	11/3/03	11/3/03	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	2/21/03	11/14/03	134,300	5,079
AZ-102	PIHLW FEED TANK	11/14/03	11/14/03	123,900	5,202
AZ-101	AN-105	12/22/03	12/23/03	320,000	0
WASH-WATER	AZ-101	12/24/03	12/26/03	324,000	0
RETURN 1	AP-107	2/20/04	2/20/04	8,673	330
RETURN 2	AP-107	3/8/04	3/8/04	8,672	330
AW-102	242-A	4/4/04	4/8/04	947,900	34
242-A	AW-106	4/4/04	4/8/04	606,100	34
242-A	LERF	4/4/04	4/8/04	341,800	0
AW-106	AW-102	4/9/04	4/12/04	605,900	23
AW-102	242-A	4/26/04	4/29/04	606,100	23
242-A	AW-106	4/26/04	4/29/04	389,200	23
242-A	LERF	4/26/04	4/29/04	216,900	0
AW-106	AW-102	4/29/04	5/1/04	389,100	15
AP-104	AP-108	5/5/04	5/9/04	753,200	1,687
AP-102	AP-106	5/9/04	5/13/04	753,200	1,687
WASH-WATER	AP-102	5/14/04	5/14/04	118,100	0
WASH-WATER	AP-104	5/15/04	5/15/04	118,100	0
AW-102	242-A	5/15/04	5/17/04	389,200	15
242-A	AW-106	5/15/04	5/17/04	249,600	15
242-A	LERF	5/15/04	5/17/04	139,500	0
AW-106	AW-102	5/17/04	5/18/04	249,600	11
RETURN 1	AP-107	5/30/04	5/30/04	8,672	330
AX-103	AN-103	1/15/04	6/2/04	310,200	2,846
AW-102	242-A	6/1/04	6/3/04	249,700	10
242-A	AW-106	6/1/04	6/3/04	163,200	10
242-A	LERF	6/1/04	6/3/04	86,457	0
RETURN 2	AP-107	6/4/04	6/4/04	8,678	331
AN-105	AW-102	6/3/04	6/8/04	913,200	0
AP-102	AN-105	5/30/04	6/8/04	209,500	9,168
AP-104	AN-105	6/9/04	6/10/04	209,500	9,168
WASH-CAUSTIC	AP-102	6/10/04	6/10/04	103,400	0
WASH-CAUSTIC	AP-104	6/11/04	6/11/04	126,400	0
AZ-101	AN-105	6/10/04	6/11/04	322,300	0
AP-101	AP-102	6/12/04	6/14/04	402,300	18
LERF	AP-101-PUMP	6/12/04	6/14/04	44,253	0
AP-101	AP-102	6/12/04	6/14/04	446,500	18
WASH-WATER	AZ-101	6/13/04	6/15/04	433,600	0
AW-104	AP-102	6/16/04	6/16/04	111,900	5
AP-101	AP-104	6/15/04	6/17/04	491,700	22
LERF	AP-101-PUMP	6/15/04	6/17/04	54,087	0
AP-101	AP-104	6/15/04	6/17/04	545,800	22
AW-104	AP-104	6/18/04	6/18/04	136,800	6
AW-102	242-A	6/25/04	6/30/04	913,300	32
242-A	AW-106	6/25/04	6/30/04	584,100	32
242-A	LERF	6/25/04	6/30/04	329,200	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-106	AW-102	6/30/04	7/4/04	747,200	29
RETURN 1	AP-107	7/19/04	7/19/04	8,676	331
AW-102	242-A	7/18/04	7/22/04	747,300	29
242-A	AW-106	7/18/04	7/22/04	478,500	29
242-A	LERF	7/18/04	7/22/04	268,800	0
RETURN 2	AP-107	7/24/04	7/24/04	8,682	331
AW-106	AW-102	7/22/04	7/24/04	478,400	20
PIHLW FEED TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202
AZ-102	PIHLW FEED TANK	8/7/04	8/8/04	123,900	5,202
AW-102	242-A	8/7/04	8/10/04	478,500	20
242-A	AW-106	8/7/04	8/10/04	307,400	20
242-A	LERF	8/7/04	8/10/04	171,100	0
AW-106	AW-101	8/10/04	8/11/04	307,300	14
AN-105	AW-102	8/10/04	8/13/04	583,600	0
C-103	AN-103	6/2/04	8/16/04	271,800	10,423
RETURN 1	AP-107	9/7/04	9/7/04	8,676	331
C-104	AY-102	8/1/04	9/8/04	279,100	9,724
RETURN 2	AP-107	9/13/04	9/13/04	8,682	331
AW-105	AN-105	9/15/04	9/17/04	500,000	17
WESF	AN-105	10/1/04	10/1/04	5,000	0
TNS88	AN-105	10/1/04	10/1/04	750	250
ZNL87	SY-102	10/1/04	10/1/04	3,000	0
SPN87	SY-102	10/1/04	10/1/04	2,000	0
TAL88	AN-105	10/1/04	10/1/04	22,000	0
WATER	AN-105	10/1/04	10/1/04	35,000	0
34L87	AN-105	10/1/04	10/1/04	50,000	0
SPN87	SY-102	10/1/04	10/1/04	23,000	0
TAL88	AN-105	10/1/04	10/1/04	2,000	0
EVAPF	AN-105	10/1/04	10/1/04	120,000	0
1FL96	AW-105	10/1/04	10/2/04	200,000	0
WATER	AN-105	10/2/04	10/2/04	22,000	0
WATER	AN-105	10/2/04	10/2/04	4,000	0
WATER	SY-102	10/2/04	10/2/04	1,000	0
WATER	AW-105	10/2/04	10/2/04	88,000	0
WATER	SY-102	10/2/04	10/2/04	5,000	0
WATER	AN-105	10/2/04	10/3/04	1,000	0
EVAPF	AW-102	10/4/04	10/4/04	50,000	0
RETURN 1	AP-107	10/27/04	10/27/04	8,676	331
RETURN 2	AP-107	11/2/04	11/2/04	8,682	331
EVAPF	AW-102	11/3/04	11/3/04	35,000	0
A-102	AN-103	8/16/04	12/5/04	100,600	744
AW-102	242-A	12/12/04	12/15/04	668,800	24
242-A	AW-106	12/12/04	12/15/04	428,800	24
242-A	LERF	12/12/04	12/15/04	240,000	0
AW-101	AW-104	12/15/04	12/16/04	250,000	12
RETURN 1	AP-107	12/16/04	12/16/04	8,676	331
AW-106	AW-102	12/16/04	12/18/04	428,700	16
RETURN 2	AP-107	12/23/04	12/23/04	8,682	331
AW-102	242-A	1/1/05	1/3/05	428,800	16
242-A	AW-106	1/1/05	1/3/05	272,800	16
242-A	LERF	1/1/05	1/3/05	156,000	0
AW-106	AW-102	1/3/05	1/5/05	272,800	11
AW-102	242-A	1/19/05	1/20/05	272,800	11
242-A	AW-106	1/19/05	1/20/05	174,700	11
242-A	LERF	1/19/05	1/20/05	98,155	0
AW-106	AW-102	1/20/05	1/21/05	174,700	7

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	AW-106	1/22/05	1/23/05	174,800	7
AN-103	AN-104	1/24/05	1/25/05	206,700	5,498
AN-103	AW-103	1/25/05	1/25/05	3,896	104
AN-103	AP-105	1/25/05	1/25/05	3,897	104
AN-103	AP-103	1/25/05	1/26/05	42,472	1,128
AN-103	AN-101	1/26/05	1/26/05	25,050	665
AN-105	AW-102	1/24/05	1/28/05	884,300	0
AW-105	AN-105	1/1/05	1/29/05	390,700	13
AN-103	AP-101	1/26/05	1/30/05	837,200	22,207
RETURN 1	AP-107	2/4/05	2/4/05	8,676	331
RETURN 2	AP-107	2/11/05	2/11/05	8,682	331
AP-104	AP-108	2/19/05	2/23/05	807,800	1,143
AY-101	AP-104	2/24/05	2/25/05	283,600	12
AP-102	AP-106	2/23/05	2/27/05	660,800	1,129
AY-101	AP-102	2/28/05	3/1/05	279,700	11
C-105	AN-103	12/5/04	3/29/05	827,500	31,875
RETURN 1	AP-107	3/31/05	3/31/05	8,676	331
RETURN 2	AP-107	4/8/05	4/8/05	8,673	331
AW-102	242-A	4/6/05	4/11/05	884,300	30
242-A	AW-106	4/6/05	4/11/05	566,300	30
242-A	LERF	4/6/05	4/11/05	318,000	0
AW-106	AW-102	4/11/05	4/15/05	741,000	27
PIHLW FEED TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202
AZ-101	PIHLW FEED TANK	5/2/05	5/2/05	127,200	3,269
AW-102	242-A	4/29/05	5/3/05	741,000	27
242-A	AW-106	4/29/05	5/3/05	475,600	27
242-A	LERF	4/29/05	5/3/05	265,400	0
AW-106	AW-102	5/3/05	5/5/05	475,500	18
AW-102	242-A	5/19/05	5/22/05	475,600	18
242-A	AW-106	5/19/05	5/22/05	304,200	18
242-A	LERF	5/19/05	5/22/05	171,400	0
AW-106	AW-102	5/22/05	5/23/05	303,900	12
RETURN 1	AP-107	5/27/05	5/27/05	8,675	331
RETURN 2	AP-107	6/4/05	6/4/05	8,678	331
AW-102	242-A	6/6/05	6/8/05	304,000	12
242-A	AW-106	6/6/05	6/8/05	195,200	12
242-A	LERF	6/6/05	6/8/05	108,800	0
AW-106	AW-102	6/8/05	6/9/05	195,200	8
AW-102	AN-105	6/10/05	6/11/05	195,300	8
A-104	AN-103	3/29/05	7/8/05	29,827	832
C-204	AN-103	7/8/05	7/15/05	3,775	55
C-201	AN-103	7/15/05	7/21/05	2,464	59
RETURN 1	AP-107	7/23/05	7/23/05	8,675	331
RETURN 2	AP-107	7/31/05	7/31/05	8,678	331
AY-102	AZ-102	8/1/05	8/2/05	279,400	9,360
AX-104	AN-103	7/21/05	8/25/05	18,516	572
RETURN 1	AP-107	9/18/05	9/18/05	8,675	331
RETURN 2	AP-107	9/26/05	9/26/05	8,678	331
TNS88	AN-105	10/1/05	10/1/05	750	250
WESF	AN-105	10/1/05	10/1/05	5,000	0
ZNL87	SY-102	10/1/05	10/1/05	3,000	0
TAL88	AN-105	10/1/05	10/1/05	24,000	0
SPN87	SY-102	10/1/05	10/1/05	25,000	0
WATER	AN-105	10/1/05	10/1/05	35,000	0
34L87	AN-105	10/1/05	10/1/05	50,000	0
EVAPF	AN-105	10/1/05	10/1/05	120,000	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	10/2/05	10/2/05	1,000	0
WATER	AN-105	10/2/05	10/2/05	22,000	0
WATER	AN-105	10/2/05	10/2/05	5,000	0
WATER	SY-102	10/2/05	10/2/05	5,000	0
AN-105	AW-102	10/1/05	10/4/05	721,700	292
EVAPF	AW-102	11/3/05	11/3/05	35,000	0
RETURN 1	AP-107	11/14/05	11/14/05	8,675	331
PIHLW FEED TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269
AZ-101	PIHLW FEED TANK	11/16/05	11/17/05	127,200	3,269
SY-102	AW-105	11/15/05	11/17/05	413,400	16
RETURN 2	AP-107	11/22/05	11/22/05	8,678	331
AP-106	LAW-CONTRACTOR-1	6/1/02	11/30/05	3,525,000	5,368
AP-102	AP-106	11/30/05	12/2/05	279,600	53
AN-107	AP-102	12/3/05	12/5/05	481,700	22
LERF	AN-107-PUMP	12/3/05	12/5/05	72,259	0
AN-107	AP-102	12/3/05	12/5/05	554,000	22
AX-102	AN-103	8/25/05	12/13/05	87,597	897
AW-105	AN-105	12/15/05	12/17/05	413,400	16
WATER	SY-102	12/15/05	12/17/05	426,000	0
SY-102	AW-105	1/1/06	1/3/06	535,600	22,049
RETURN 2	AP-107	1/18/06	1/18/06	8,678	331
AP-108	LAW-CONTRACTOR-2	6/1/02	1/27/06	3,673,000	5,386
AP-104	AP-108	1/27/06	1/28/06	283,600	46
AN-107	AP-104	1/29/06	1/31/06	481,700	22
LERF	AN-107-PUMP	1/29/06	1/31/06	72,260	0
AN-107	AP-104	1/29/06	1/31/06	554,000	22
AP-106	LAW-CONTRACTOR-1	12/2/05	2/8/06	279,600	93
AP-102	AP-106	2/8/06	2/9/06	169,400	8
AW-105	AN-105	3/1/06	3/2/06	279,900	10
AP-102	AP-106	3/8/06	3/10/06	384,600	18
AN-102	AP-102	3/11/06	3/14/06	481,700	23
LERF	AN-102-PUMP	3/11/06	3/14/06	289,000	0
AN-102	AP-102	3/11/06	3/14/06	770,700	23
AN-103	AP-101	3/21/06	3/22/06	252,200	4,834
AN-103	AW-104	3/22/06	3/22/06	14,430	276
AN-103	AW-105	4/1/06	4/3/06	466,300	8,927
AP-108	LAW-CONTRACTOR-2	1/28/06	4/7/06	283,500	79
AW-102	242-A	4/4/06	4/7/06	753,600	27
242-A	AW-106	4/4/06	4/7/06	483,600	27
242-A	LERF	4/4/06	4/7/06	270,000	0
AP-104	AP-108	4/7/06	4/8/06	169,400	8
AW-106	AW-102	4/8/06	4/10/06	483,500	18
AW-102	242-A	4/24/06	4/26/06	483,600	18
242-A	AW-106	4/24/06	4/26/06	309,600	18
242-A	LERF	4/24/06	4/26/06	174,000	0
AW-106	AW-102	4/26/06	4/28/06	309,500	12
AP-104	AP-108	5/5/06	5/7/06	384,600	18
AN-102	AP-104	5/8/06	5/11/06	481,700	23
LERF	AN-102-PUMP	5/8/06	5/11/06	289,000	0
AN-102	AP-104	5/8/06	5/11/06	770,700	23
AW-102	242-A	5/12/06	5/14/06	309,600	12
242-A	AW-106	5/12/06	5/14/06	198,100	12
242-A	LERF	5/12/06	5/14/06	111,500	0
AW-106	AW-102	5/14/06	5/15/06	198,100	9
AW-102	AW-106	5/16/06	5/17/06	198,200	9
AN-105	AW-102	5/17/06	5/20/06	693,100	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
PIHLW FEED TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269
AZ-101	PIHLW FEED TANK	6/2/06	6/3/06	127,200	3,269
AZ-102	AN-105	6/24/06	6/24/06	159,500	0
WASH-WATER	AZ-102	6/24/06	6/26/06	324,000	0
AP-102	AP-106	7/21/06	7/25/06	770,700	23
AN-106	AP-102	7/26/06	7/29/06	549,100	25
LERF	AN-106-PUMP	7/26/06	7/29/06	98,837	0
AN-106	AP-102	7/26/06	7/29/06	647,900	25
AZ-102	AN-105	8/14/06	8/16/06	320,100	0
WASH-WATER	AZ-102	8/17/06	8/19/06	324,000	0
AW-102	242-A	9/2/06	9/6/06	693,000	25
242-A	AW-106	9/2/06	9/6/06	443,900	25
242-A	LERF	9/2/06	9/6/06	249,200	0
AW-106	AW-102	9/6/06	9/10/06	642,000	26
AP-104	AP-108	9/17/06	9/21/06	770,700	23
AN-106	AP-104	9/22/06	9/25/06	549,100	25
LERF	AN-106-PUMP	9/22/06	9/25/06	98,837	0
AN-106	AP-104	9/22/06	9/25/06	647,900	25
AW-102	242-A	9/24/06	9/27/06	642,000	26
242-A	AW-106	9/24/06	9/27/06	412,200	26
242-A	LERF	9/24/06	9/27/06	229,800	0
SY-101	SY-102	9/23/06	9/28/06	537,800	5,486
LERF	SY-101-PUMP	9/23/06	9/28/06	532,400	0
SY-101	SY-102	9/23/06	9/28/06	1,082,000	611
AW-106	AW-102	9/27/06	9/29/06	412,100	18
34L87	AN-105	10/1/06	10/1/06	7,000	0
TNS88	AN-105	10/1/06	10/1/06	750	250
WESF	AN-105	10/1/06	10/1/06	5,000	0
TAL88	AN-105	10/1/06	10/1/06	25,000	0
SPN87	SY-102	10/1/06	10/1/06	25,000	0
34L87	AN-105	10/1/06	10/1/06	50,000	0
WATER	AN-105	10/1/06	10/1/06	35,000	0
EVAPP	AN-105	10/1/06	10/1/06	120,000	0
WATER	AN-105	10/2/06	10/2/06	3,000	0
WATER	AN-105	10/2/06	10/2/06	22,000	0
WATER	AN-105	10/2/06	10/2/06	5,000	0
WATER	SY-102	10/2/06	10/2/06	5,000	0
EVAPP	AW-102	10/4/06	10/4/06	50,000	0
SY-102	AN-102	10/6/06	10/9/06	1,027,000	1,532
AW-102	242-A	10/13/06	10/15/06	462,200	20
242-A	AW-106	10/13/06	10/15/06	310,800	20
242-A	LERF	10/13/06	10/15/06	151,400	0
AW-106	AW-101	10/15/06	10/17/06	310,800	14
AN-105	AW-102	10/16/06	10/19/06	749,400	0
AZ-102	AN-105	10/20/06	10/21/06	322,700	0
SY-101	SY-102	10/17/06	10/22/06	537,800	5,486
LERF	SY-101-PUMP	10/17/06	10/22/06	532,400	0
SY-101	SY-102	10/17/06	10/22/06	1,082,000	611
WASH-WATER	AZ-102	10/22/06	10/23/06	150,500	0
SY-102	AN-107	10/30/06	11/2/06	983,800	641
EVAPP	AW-102	11/3/06	11/3/06	35,000	0
SY-101	SY-102	11/10/06	11/10/06	0	0
PIHLW FEED TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269
AZ-101	PIHLW FEED TANK	12/18/06	12/18/06	127,200	3,269
AN-103	AN-106	12/24/06	12/26/06	368,400	7,045
RETURN 1	AP-107	2/25/07	2/25/07	8,735	265

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AP-102	AP-106	3/18/07	3/21/07	647,900	25
AN-102	AP-102	3/22/07	3/27/07	1,013,000	44
SY-103	SY-102	3/30/07	4/1/07	350,000	9,759
LERF	SY-103-PUMP	3/30/07	4/1/07	183,500	0
SY-103	SY-102	3/30/07	4/1/07	537,500	1,449
AW-102	242-A	4/5/07	4/8/07	784,600	27
242-A	AW-106	4/5/07	4/8/07	502,600	27
242-A	LERF	4/5/07	4/8/07	282,000	0
AW-106	AW-102	4/9/07	4/11/07	502,500	18
SY-102	AN-102	4/9/07	4/11/07	720,700	1,528
AW-102	242-A	4/25/07	4/28/07	502,600	18
242-A	AW-106	4/25/07	4/28/07	322,600	18
242-A	LERF	4/25/07	4/28/07	180,000	0
AW-106	AW-102	4/28/07	4/29/07	322,500	12
AW-102	242-A	5/13/07	5/15/07	322,600	12
242-A	AW-106	5/13/07	5/15/07	206,100	12
242-A	LERF	5/13/07	5/15/07	116,500	0
AW-106	AW-102	5/15/07	5/16/07	206,000	8
AW-102	AN-105	5/17/07	5/18/07	206,200	8
AP-104	AP-108	5/15/07	5/18/07	647,900	25
AN-107	AP-104	5/19/07	5/23/07	978,400	43
SY-103	SY-102	5/27/07	5/29/07	350,000	9,759
LERF	SY-103-PUMP	5/27/07	5/29/07	183,500	0
SY-103	SY-102	5/27/07	5/29/07	537,500	1,449
SY-102	AN-107	6/6/07	6/7/07	537,500	1,434
PIHLW FEED TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269
AZ-101	PIHLW FEED TANK	7/4/07	7/5/07	127,200	3,269
S-103	SY-101	2/13/07	8/7/07	712,300	1,011
AN-103	AN-106	8/11/07	8/15/07	721,800	2,298
WESF	AN-105	10/1/07	10/1/07	5,000	0
TNS88	AN-105	10/1/07	10/1/07	750	250
TAL88	AN-105	10/1/07	10/1/07	25,000	0
SPN87	SY-102	10/1/07	10/1/07	25,000	0
34L87	AN-105	10/1/07	10/1/07	50,000	0
WATER	AN-105	10/1/07	10/1/07	35,000	0
EVAPF	AN-105	10/1/07	10/1/07	120,000	0
WATER	AN-105	10/2/07	10/2/07	5,000	0
WATER	SY-102	10/2/07	10/2/07	5,000	0
WATER	AN-105	10/2/07	10/2/07	22,000	0
AN-105	AW-102	10/1/07	10/5/07	791,500	314
EVAPF	AW-102	11/3/07	11/3/07	35,000	0
AP-102	AP-106	11/2/07	11/7/07	1,013,000	44
AN-102	AP-102	11/8/07	11/11/07	707,100	31
SX-113	SY-103	9/1/07	12/7/07	10,322	399
AP-104	AP-108	12/30/07	1/4/08	978,400	43
AN-107	AP-104	1/5/08	1/7/08	524,700	23
PIHLW FEED TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269
AZ-102	PIHLW FEED TANK	1/18/08	1/19/08	137,700	4,774
SY-101	AN-102	2/9/08	2/13/08	996,600	1,676
AW-102	242-A	4/3/08	4/7/08	823,300	29
242-A	AW-106	4/3/08	4/7/08	529,200	29
242-A	LERF	4/3/08	4/7/08	294,100	0
AN-103	AN-107	4/6/08	4/8/08	401,300	1,276
AW-106	AW-102	4/8/08	4/11/08	529,100	19
AN-102	AN-107	4/8/08	4/11/08	557,200	4,431
SX-112	SY-103	12/7/07	4/17/08	397,100	16,406

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	242-A	4/25/08	4/27/08	529,200	19
242-A	AW-106	4/25/08	4/27/08	337,200	19
242-A	LERF	4/25/08	4/27/08	192,000	0
AW-106	AW-102	4/27/08	4/29/08	337,100	13
AW-102	242-A	5/13/08	5/15/08	337,200	13
242-A	AW-106	5/13/08	5/15/08	216,300	13
242-A	LERF	5/13/08	5/15/08	120,900	0
AW-106	AW-102	5/15/08	5/16/08	216,300	8
AW-102	AN-105	5/17/08	5/18/08	216,500	8
AX-101	AN-103	12/13/05	8/2/08	2,149,000	6,072
C-202	AN-103	8/2/08	8/6/08	1,181	28
SX-110	SY-103	4/17/08	8/20/08	212,700	8,909
AP-102	AP-106	9/7/08	9/11/08	707,100	31
WESF	AN-105	10/1/08	10/1/08	5,000	0
TNS88	AN-105	10/1/08	10/1/08	750	250
SPN87	SY-102	10/1/08	10/1/08	25,000	0
TAL88	AN-105	10/1/08	10/1/08	25,000	0
WATER	AN-105	10/1/08	10/1/08	35,000	0
34L87	AN-105	10/1/08	10/1/08	50,000	0
EVAPF	AN-105	10/1/08	10/1/08	120,000	0
WATER	AN-105	10/2/08	10/2/08	22,000	0
WATER	SY-102	10/2/08	10/2/08	5,000	0
WATER	AN-105	10/2/08	10/2/08	5,000	0
EVAPF	AW-102	10/4/08	10/4/08	50,000	0
SX-115	SY-103	8/20/08	10/21/08	42,100	1,556
A-105	AN-103	8/6/08	10/29/08	50,372	1,545
EVAPF	AW-102	11/3/08	11/3/08	35,000	0
C-203	AN-103	10/29/08	11/5/08	6,307	150
AP-104	AP-108	11/4/08	11/6/08	524,700	23
PIHLW FEED TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774
AZ-102	PIHLW FEED TANK	12/22/08	12/22/08	137,700	4,774
U-202	UA-2	1/3/09	1/10/09	27,411	1,061
U-203	UA-2	1/10/09	1/16/09	13,895	537
C-108	AN-103	11/5/08	1/21/09	83,934	3,840
U-110	UA-2	1/16/09	3/10/09	99,290	4,252
UA-2	SY-102	3/11/09	3/12/09	173,900	5,847
C-111	AN-103	1/21/09	4/4/09	176,500	7,080
AP-106	LAW-CONTRACTOR-1	2/9/06	5/20/09	3,693,000	158
RETURN 1	AP-107	5/21/09	5/21/09	2,581	96
AP-108	LAW-CONTRACTOR-2	4/8/06	5/21/09	3,476,000	146
RETURN 2	AP-107	5/22/09	5/22/09	7,544	287
U-110	UA-1	3/10/09	5/27/09	143,800	6,160
UA-1	SY-102	5/28/09	5/29/09	186,800	6,157
U-110	UA-2	5/27/09	5/30/09	4,829	207
AP-107	AZ-101	6/1/09	6/2/09	271,400	9,319
AN-102	AP-107	6/11/09	6/13/09	551,400	4,381
SY-101	AN-102	6/13/09	6/17/09	1,115,000	1,795
AN-102	AP-107	6/18/09	6/21/09	559,700	985
S-105	SY-101	8/7/07	7/12/09	1,518,000	2,459
U-101	UA-2	5/30/09	7/30/09	27,955	668
TNS88	AN-105	10/1/09	10/1/09	750	250
WESF	AN-105	10/1/09	10/1/09	5,000	0
TAL88	AN-105	10/1/09	10/1/09	26,000	0
34L87	AN-105	10/1/09	10/1/09	50,000	0
WATER	AN-105	10/1/09	10/1/09	35,000	0
34L87	AN-105	10/1/09	10/1/09	7,000	0

HNF-2321
Revision 0

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
SPN87	SY-102	10/1/09	10/1/09	25,000	0
EVAPF	AN-105	10/1/09	10/1/09	120,000	0
WATER	AN-105	10/2/09	10/2/09	5,000	0
WATER	AN-105	10/2/09	10/2/09	3,000	0
WATER	SY-102	10/2/09	10/2/09	5,000	0
WATER	AN-105	10/2/09	10/2/09	22,000	0
AN-105	AW-102	10/1/09	10/4/09	750,100	325
EVAPF	AW-102	11/3/09	11/3/09	35,000	0
U-104	UA-2	7/30/09	11/9/09	50,908	1,221
PIHLW FEED TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774
U-112	UA-2	11/9/09	12/5/09	58,521	2,330
UA-2	SY-102	12/5/09	12/6/09	154,400	4,426
U-112	UA-1	12/5/09	1/17/10	102,000	4,061
U-204	UA-1	1/17/10	1/23/10	13,004	503
U-201	UA-1	1/23/10	1/27/10	13,912	538
UA-1	SY-102	1/28/10	1/28/10	146,500	5,102
U-201	UA-2	1/27/10	1/30/10	13,499	522
U-106	UA-2	1/30/10	3/1/10	134,400	338
UA-2	SY-102	3/2/10	3/3/10	151,500	862
U-106	UA-1	3/1/10	4/4/10	149,500	376
AW-102	242-A	4/4/10	4/8/10	866,900	30
242-A	AW-106	4/4/10	4/8/10	554,900	30
242-A	LERF	4/4/10	4/8/10	312,000	0
AW-106	AW-102	4/9/10	4/11/10	554,800	20
AW-102	242-A	4/26/10	4/28/10	554,900	20
242-A	AW-106	4/26/10	4/28/10	356,500	20
242-A	LERF	4/26/10	4/28/10	198,400	0
AW-106	AW-102	4/28/10	4/30/10	356,400	13
U-106	UA-2	4/4/10	5/7/10	149,500	376
AW-102	242-A	5/14/10	5/16/10	356,500	13
242-A	AW-106	5/14/10	5/16/10	227,900	13
242-A	LERF	5/14/10	5/16/10	128,600	0
AW-106	AW-102	5/16/10	5/17/10	227,800	9
AW-102	242-A	5/31/10	6/2/10	227,900	9
242-A	AW-106	5/31/10	6/2/10	144,500	9
242-A	LERF	5/31/10	6/2/10	83,415	0
AW-106	AW-102	6/2/10	6/2/10	144,500	6
AW-102	AN-105	6/4/10	6/4/10	144,600	6
TNS88	AN-105	10/1/10	10/1/10	750	250
TAL88	AN-105	10/1/10	10/1/10	26,000	0
WATER	AN-105	10/1/10	10/1/10	25,000	0
WESF	AN-105	10/1/10	10/1/10	5,000	0
SPN87	SY-102	10/1/10	10/1/10	25,000	0
WATER	AN-105	10/1/10	10/1/10	35,000	0
34L87	AN-105	10/1/10	10/1/10	50,000	0
EVAPF	AN-105	10/1/10	10/1/10	120,000	0
WATER	AN-105	10/2/10	10/2/10	5,000	0
WATER	SY-102	10/2/10	10/2/10	5,000	0
WATER	AN-105	10/2/10	10/2/10	22,000	0
EVAPF	AW-102	10/4/10	10/4/10	50,000	0
EVAPF	AW-102	11/3/10	11/3/10	35,000	0
WATER	AN-105	1/1/11	1/1/11	25,000	0
BY-110	BA-3	1/3/11	2/8/11	147,400	2,633
TX-109	TA-5	1/3/11	2/10/11	144,100	5,925
TY-101	TA-4	1/3/11	2/22/11	146,500	3,494
T-106	TA-6	1/3/11	3/2/11	74,648	2,929

Table A.2-1. Complete Transfer List for Case 2.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
B-112	BA-1	1/3/11	3/9/11	75,213	1,083
BY-110	BA-4	2/8/11	3/16/11	147,400	2,633
TX-109	TA-3	2/10/11	3/19/11	144,100	5,925
T-101	TA-6	3/2/11	3/25/11	61,377	2,346
WATER	AN-105	4/1/11	4/1/11	25,000	0
BX-102	BA-2	1/3/11	4/4/11	52,548	2,443
B-111	BA-1	3/9/11	4/9/11	72,630	2,383
TY-101	TA-2	2/22/11	4/13/11	146,500	3,494
BY-110	BA-5	3/16/11	4/21/11	147,400	2,633
TX-109	TA-1	3/19/11	4/26/11	144,100	5,925
BX-112	BA-2	4/4/11	5/2/11	67,370	2,937
BA-3	AP-104	6/1/11	6/2/11	155,600	2,631
BA-4	AP-108	6/1/11	6/2/11	155,600	2,631
BA-1	AP-104	6/2/11	6/2/11	157,300	3,464
BA-5	AP-108	6/2/11	6/3/11	155,600	2,631
BA-2	AP-104	6/2/11	6/3/11	174,500	5,377
AN-102	AP-102	6/1/11	6/3/11	555,800	978
AN-103	AP-106	6/1/11	6/6/11	1,099,000	17,131
AN-103	AP-102	6/6/11	6/6/11	4,514	69
SY-103	AN-102	6/3/11	6/7/11	1,081,000	35,223
B-111	BA-6	4/9/11	6/11/11	145,200	4,764
AN-102	AP-102	6/8/11	6/11/11	538,000	17,107
BA-6	AP-108	6/11/11	6/12/11	159,400	4,762
AN-102	AP-104	6/11/11	6/14/11	545,100	17,317
SY-101	AN-102	6/14/11	6/18/11	1,114,000	2,136
AN-102	AP-104	6/18/11	6/18/11	55,096	144
AN-102	AP-108	6/18/11	6/22/11	634,300	1,657
WATER	AN-105	7/1/11	7/1/11	25,000	0
BY-110	BA-4	6/2/11	7/8/11	147,300	2,631
BX-112	BA-3	6/2/11	8/2/11	143,600	6,262
A-106	AN-103	4/4/09	8/8/11	253,300	5,796
B-111	BA-1	6/11/11	8/12/11	145,100	4,761
SX-111	SY-103	10/21/08	8/13/11	451,500	19,767
BY-110	BA-5	7/8/11	8/13/11	147,300	2,631
B-111	BA-6	8/12/11	8/13/11	719	24
BX-112	BA-2	8/2/11	9/4/11	78,662	3,430
BY-110	BA-6	8/13/11	9/18/11	146,500	2,618
B-103	BA-2	9/4/11	9/22/11	41,507	78

Table A.2-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 2.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
X	AP-106	AW-105	3/15/99	3/15/99	174,300	6	Empty 6AP
X	AP-108	AW-105	3/15/99	3/15/99	500	0	Empty 8AP
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Pre-Stage Envelope B
X	AP-104	AW-102	7/2/01	7/6/01	918,300	0	Empty 4AP
	WASH-WATER	AP-104	11/19/01	11/20/01	200,000	0	Flush Water to 4AP
X	AP-102	AP-103	11/17/01	11/22/01	1,070,000	0	Empty 2AP
	AP-104	AP-102	12/1/01	12/3/01	385,700	39	Flush 4AP
	AP-102	AP-106	12/15/01	12/17/01	385,700	37	Flush 2AP
	AN-105	AP-102	1/1/02	1/4/02	542,400	7,895	Retrieve/Stage LAW Batch 1, Contractor 1, Envelope A
	LERF	AN-105-PUMP	1/1/02	1/4/02	154,100	0	Dilution Water
	AN-105	AP-102	1/1/02	1/4/02	686,500	294	As-received Ghost
	AN-105	AP-104	1/5/02	1/8/02	542,400	7,895	Retrieve/Stage LAW Batch 1, Contractor 2, Envelope A
	LERF	AN-105-PUMP	1/5/02	1/8/02	154,100	0	Dilution Water
	AN-105	AP-104	1/5/02	1/8/02	686,500	294	As-received Ghost
	AP-106	AP-108	1/10/02	1/12/02	393,700	684	Flush 6AP
	AP-108	AN-105	1/13/02	1/15/02	393,700	641	Flush 8AP
	AP-102	AP-106	4/26/02	4/30/02	686,500	285	Deliver LAW Batch 1, Contractor 1
	AP-104	AP-108	4/30/02	5/4/02	686,500	285	Deliver LAW Batch 1, Contractor 2
	AN-104	AP-102	4/30/02	5/3/02	502,200	12,513	Retrieve/Stage LAW Batch 2, Contractor 1, Envelope A
	LERF	AN-104-PUMP	4/30/02	5/3/02	200,800	0	Dilution Water
	AN-104	AP-102	4/30/02	5/3/02	684,700	702	As-received Ghost
	AN-104	AP-104	5/4/02	5/7/02	502,200	12,513	Retrieve/Stage LAW Batch 2, Contractor 2, Envelope A
	LERF	AN-104-PUMP	5/4/02	5/7/02	200,800	0	Dilution Water
	AN-104	AP-104	5/4/02	5/7/02	684,700	702	As-received Ghost
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Pre-Stage Envelope B
	AP-104	AP-108	1/7/03	1/10/03	684,700	686	Deliver LAW Batch 2, Contractor 2
	AP-102	AP-106	1/10/03	1/13/03	684,700	686	Deliver LAW Batch 2, Contractor 1
	AW-101	AP-104	1/11/03	1/15/03	537,200	13,013	Retrieve/Stage LAW Batch 3, Contractor 2, Envelope A
	LERF	AW-101-PUMP	1/11/03	1/15/03	308,100	0	Dilution Water
	AW-101	AP-104	1/11/03	1/15/03	845,400	13,013	As-received Ghost
	RETURN 1	AP-107	1/17/03	1/17/03	8,709	292	Returns From Contractor 1
	AW-101	AP-102	1/16/03	1/20/03	537,200	13,013	Retrieve/Stage LAW Batch 3, Contractor 1, Envelope A
	LERF	AW-101-PUMP	1/16/03	1/20/03	308,100	0	Dilution Water
	AW-101	AP-102	1/16/03	1/20/03	845,400	13,013	As-received Ghost
	RETURN 2	AP-107	2/19/03	2/19/03	8,669	331	Returns From Contractor 2
	AP-104	AP-108	10/1/03	10/4/03	740,300	1,581	Deliver LAW Batch 3, Contractor 2
	RETURN 1	AP-107	10/5/03	10/6/03	8,671	332	Returns From Contractor 1
	AN-103	AP-104	10/5/03	10/8/03	436,600	28,133	Retrieve/Stage LAW Batch 4, Contractor 2, Envelope A
	LERF	AN-103-PUMP	10/5/03	10/8/03	264,900	0	Dilution Water
	AN-103	AP-104	10/5/03	10/8/03	738,300	549	As-received Ghost
	AP-102	AP-106	10/4/03	10/8/03	740,300	1,581	Deliver LAW Batch 3, Contractor 1
	AN-103	AP-102	10/9/03	10/12/03	436,600	28,133	Retrieve/Stage LAW Batch 4, Contractor 1, Envelope A
	LERF	AN-103-PUMP	10/9/03	10/12/03	264,900	0	Dilution Water
	AN-103	AP-102	10/9/03	10/12/03	738,300	549	As-received Ghost
	RETURN 2	AP-107	10/22/03	10/22/03	8,672	331	Returns From Contractor 2
	RETURN 1	AP-107	2/20/04	2/20/04	8,673	330	Returns From Contractor 1
	RETURN 2	AP-107	3/8/04	3/8/04	8,672	330	Returns From Contractor 2
	AP-104	AP-108	5/5/04	5/9/04	753,200	1,687	Deliver LAW Batch 4, Contractor 2
	AP-102	AP-106	5/9/04	5/13/04	753,200	1,687	Deliver LAW Batch 4, Contractor 1
	WASH-WATER	AP-102	5/14/04	5/14/04	118,100	0	Flush Water to 2AP
	WASH-WATER	AP-104	5/15/04	5/15/04	118,100	0	Flush Water to 4AP
	RETURN 1	AP-107	5/30/04	5/30/04	8,672	330	Returns From Contractor 1

HNF-2321

Revision 0

Table A.2-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 2.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	RETURN 2	AP-107	6/4/04	6/4/04	8,678	331	Returns From Contractor 2
	AP-102	AN-105	5/30/04	6/8/04	209,500	9,168	Flush 2AP
	WASH-CAUSTIC	AP-102	6/10/04	6/10/04	103,400	0	Shim Caustic for Batch 5, Contractor 1
	AP-104	AN-105	6/9/04	6/10/04	209,500	9,168	Flush 4AP
	WASH-CAUSTIC	AP-104	6/11/04	6/11/04	126,400	0	Shim Caustic for Batch 5, Contractor 2
	AP-101	AP-102	6/12/04	6/14/04	402,300	18	Retrieve/Stage LAW Batch 5, Contractor 1, Envelope A
	LERF	AP-101-PUMP	6/12/04	6/14/04	44,253	0	Dilution Water
	AP-101	AP-102	6/12/04	6/14/04	446,500	18	As-received Ghost
	AW-104	AP-102	6/16/04	6/16/04	111,900	5	Complete Retrieve/Stage Contractor 1, Envelope A LAW Batch 5,
	AP-101	AP-104	6/15/04	6/17/04	491,700	22	Retrieve/Stage LAW Batch 5, Contractor 2, Envelope A
	LERF	AP-101-PUMP	6/15/04	6/17/04	54,087	0	Dilution Water
	AP-101	AP-104	6/15/04	6/17/04	545,800	22	As-received Ghost
	AW-104	AP-104	6/18/04	6/18/04	136,800	6	Complete Retrieve/Stage Contractor 2, Envelope A LAW Batch 5,
	RETURN 1	AP-107	7/19/04	7/19/04	8,676	331	Returns From Contractor 1
	RETURN 2	AP-107	7/24/04	7/24/04	8,682	331	Returns From Contractor 2
	RETURN 1	AP-107	9/7/04	9/7/04	8,676	331	Returns From Contractor 1
	RETURN 2	AP-107	9/13/04	9/13/04	8,682	331	Returns From Contractor 2
	RETURN 1	AP-107	10/27/04	10/27/04	8,676	331	Returns From Contractor 1
	RETURN 2	AP-107	11/2/04	11/2/04	8,682	331	Returns From Contractor 2
	RETURN 1	AP-107	12/16/04	12/16/04	8,676	331	Returns From Contractor 1
	RETURN 2	AP-107	12/23/04	12/23/04	8,682	331	Returns From Contractor 2
	RETURN 1	AP-107	2/4/05	2/4/05	8,676	331	Returns From Contractor 1
	RETURN 2	AP-107	2/11/05	2/11/05	8,682	331	Returns From Contractor 2
	AP-104	AP-108	2/19/05	2/23/05	807,800	1,143	Deliver LAW Batch 5, Contractor 2
	AY-101	AP-104	2/24/05	2/25/05	283,600	12	Stage LAW Batch 6, Contractor 2, Envelope B
	AP-102	AP-106	2/23/05	2/27/05	660,800	1,129	Deliver LAW Batch 5, Contractor 1
	AY-101	AP-102	2/28/05	3/1/05	279,700	11	Stage LAW Batch 6, Contractor 1, Envelope B
	RETURN 1	AP-107	3/31/05	3/31/05	8,676	331	Returns From Contractor 1
	RETURN 2	AP-107	4/8/05	4/8/05	8,673	331	Returns From Contractor 2
	RETURN 1	AP-107	5/27/05	5/27/05	8,675	331	Returns From Contractor 1
	RETURN 2	AP-107	6/4/05	6/4/05	8,678	331	Returns From Contractor 2
	RETURN 1	AP-107	7/23/05	7/23/05	8,675	331	Returns From Contractor 1
	RETURN 2	AP-107	7/31/05	7/31/05	8,678	331	Returns From Contractor 2
	RETURN 1	AP-107	9/18/05	9/18/05	8,675	331	Returns From Contractor 1
	RETURN 2	AP-107	9/26/05	9/26/05	8,678	331	Returns From Contractor 2
	RETURN 1	AP-107	11/14/05	11/14/05	8,675	331	Returns From Contractor 1
X	SY-102	AW-105	11/15/05	11/17/05	413,400	16	Decant Supernate from SY-102
	RETURN 2	AP-107	11/22/05	11/22/05	8,678	331	Returns From Contractor 2
	AP-106	LAW-CONTRACTOR-1	6/1/02	11/30/05	3,525,000	5,368	Complete Processing Envelope A, Contractor 1
	AP-102	AP-106	11/30/05	12/2/05	279,600	53	Deliver LAW Batch 6, Contractor 1
	AN-107	AP-102	12/3/05	12/5/05	481,700	22	Retrieve/Stage LAW Batch 7/8, Contractor 1, Envelope C
	LERF	AN-107-PUMP	12/3/05	12/5/05	72,259	0	Dilution Water
	AN-107	AP-102	12/3/05	12/5/05	554,000	22	As-received Ghost
X	WATER	SY-102	12/15/05	12/17/05	426,000	0	Flush Water for 2SY Solids Cleanout
X	SY-102	AW-105	1/1/06	1/3/06	535,600	22,049	Cleanout Solids 2SY
	RETURN 2	AP-107	1/18/06	1/18/06	8,678	331	Returns From Contractor 2
	AP-108	LAW-CONTRACTOR-2	6/1/02	1/27/06	3,673,000	5,386	Complete Processing Envelope A, Contractor 2
	AP-104	AP-108	1/27/06	1/28/06	283,600	46	Deliver LAW Batch 6, Contractor 2
	AN-107	AP-104	1/29/06	1/31/06	481,700	22	Retrieve/Stage LAW Batch 7/8, Contractor 2, Envelope C
	LERF	AN-107-PUMP	1/29/06	1/31/06	72,260	0	Dilution Water
	AN-107	AP-104	1/29/06	1/31/06	554,000	22	As-received Ghost
	AP-106	LAW-CONTRACTOR-1	12/2/05	2/8/06	279,600	93	Complete Processing Envelope B, Contractor 1
	AP-102	AP-106	2/8/06	2/9/06	169,400	8	Deliver LAW Batch 7, Contractor 1

HNF-2321
Revision 0

Table A.2-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 2.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AP-102	AP-106	3/8/06	3/10/06	384,600	18	Deliver LAW Batch 8, Contractor 1
	AN-102	AP-102	3/11/06	3/14/06	481,700	23	Retrieve/Stage LAW Batch 9, Contractor 1, Envelope C
	LERF	AN-102-PUMP	3/11/06	3/14/06	289,000	0	Dilution Water
	AN-102	AP-102	3/11/06	3/14/06	770,700	23	As-received Ghost
	AP-108	LAW-CONTRACTOR-2	1/28/06	4/7/06	283,500	79	Complete Processing Envelope B, Contractor 2
	AP-104	AP-108	4/7/06	4/8/06	169,400	8	Deliver LAW Batch 7, Contractor 2
	AP-104	AP-108	5/5/06	5/7/06	384,600	18	Deliver LAW Batch 8, Contractor 2
	AN-102	AP-104	5/8/06	5/11/06	481,700	23	Retrieve/Stage LAW Batch 9, Contractor 2, Envelope C
	LERF	AN-102-PUMP	5/8/06	5/11/06	289,000	0	Dilution Water
	AN-102	AP-104	5/8/06	5/11/06	770,700	23	As-received Ghost
	AP-102	AP-106	7/21/06	7/25/06	770,700	23	Deliver LAW Batch 9, Contractor 1
	AN-106	AP-102	7/26/06	7/29/06	549,100	25	Retrieve/Stage LAW Batch 10, Contractor 1, Envelope C
	LERF	AN-106-PUMP	7/26/06	7/29/06	98,837	0	Dilution Water
	AN-106	AP-102	7/26/06	7/29/06	647,900	25	As-received Ghost
	AP-104	AP-108	9/17/06	9/21/06	770,700	23	Deliver LAW Batch 9, Contractor 2
	AN-106	AP-104	9/22/06	9/25/06	549,100	25	Retrieve/Stage LAW Batch 10, Contractor 2, Envelope C
	LERF	AN-106-PUMP	9/22/06	9/25/06	98,837	0	Dilution Water
	AN-106	AP-104	9/22/06	9/25/06	647,900	25	As-received Ghost
	SY-101	SY-102	9/23/06	9/28/06	537,800	5,486	Retrieve LAW Batch 11, Envelope C
	LERF	SY-101-PUMP	9/23/06	9/28/06	532,400	0	Dilution Water
	SY-101	SY-102	9/23/06	9/28/06	1,082,000	611	As-received Ghost
	SY-102	AN-102	10/6/06	10/9/06	1,027,000	1,532	Pre-Stage LAW Batch 11, Envelope C
	SY-101	SY-102	10/17/06	10/22/06	537,800	5,486	Retrieve LAW Batch 11, Envelope C
	LERF	SY-101-PUMP	10/17/06	10/22/06	532,400	0	Dilution Water
	SY-101	SY-102	10/17/06	10/22/06	1,082,000	611	As-received Ghost
	SY-102	AN-107	10/30/06	11/2/06	983,800	641	Pre-Stage LAW Batch 11, Envelope C
	RETURN 1	AP-107	2/25/07	2/25/07	8,735	265	Returns From Contractor 1
	AP-102	AP-106	3/18/07	3/21/07	647,900	25	Deliver LAW Batch 10, Contractor 1
	AN-102	AP-102	3/22/07	3/27/07	1,013,000	44	Stage LAW Batch 11, Contractor 1, Envelope C
	SY-103	SY-102	3/30/07	4/1/07	350,000	9,759	Retrieve LAW Batch 12, Envelope C
	LERF	SY-103-PUMP	3/30/07	4/1/07	183,500	0	Dilution Water
	SY-103	SY-102	3/30/07	4/1/07	537,500	1,449	As-received Ghost
	SY-102	AN-102	4/9/07	4/11/07	720,700	1,528	Pre-Stage LAW Batch 12, Envelope C
	AP-104	AP-108	5/15/07	5/18/07	647,900	25	Deliver LAW Batch 10, Contractor 2
	AN-107	AP-104	5/19/07	5/23/07	978,400	43	Stage LAW Batch 11, Contractor 2, Envelope C
	SY-103	SY-102	5/27/07	5/29/07	350,000	9,759	Retrieve LAW Batch 12, Envelope C
	LERF	SY-103-PUMP	5/27/07	5/29/07	183,500	0	Dilution Water
	SY-103	SY-102	5/27/07	5/29/07	537,500	1,449	As-received Ghost
	SY-102	AN-107	6/6/07	6/7/07	537,500	1,434	Pre-Stage LAW Batch 12, Envelope C
	AP-102	AP-106	11/2/07	11/7/07	1,013,000	44	Deliver LAW Batch 11, Contractor 1
	AN-102	AP-102	11/8/07	11/11/07	707,100	31	Stage LAW Batch 12, Contractor 1, Envelope C
	AP-104	AP-108	12/30/07	1/4/08	978,400	43	Deliver LAW Batch 11, Contractor 2
	AN-107	AP-104	1/5/08	1/7/08	524,700	23	Stage LAW Batch 12, Contractor 2, Envelope C
	AP-102	AP-106	9/7/08	9/11/08	707,100	31	Deliver LAW Batch 12, Contractor 1
	AP-104	AP-108	11/4/08	11/6/08	524,700	23	Deliver LAW Batch 12, Contractor 2
	AP-106	LAW-CONTRACTOR-1	2/9/06	5/20/09	3,693,000	158	Complete Processing Envelope C, Contractor 1
	AP-108	LAW-CONTRACTOR-2	4/8/06	5/21/09	3,476,000	146	Complete Processing Envelope C, Contractor 2
	RETURN 1	AP-107	5/21/09	5/21/09	2,581	96	Returns From Contractor 1
	RETURN 2	AP-107	5/22/09	5/22/09	7,544	287	Returns From Contractor 2
X	AP-107	AZ-101	6/1/09	6/2/09	271,400	9,319	Transfer Returns to AZ-101 (Phase 2 HLW Tank)

Table A.2-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 2.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AY-102	C-106	7/1/98	7/5/98	920,700	31	Sludge "Water" for C-106 Retrieval - Lumped (See Below)
	C-106	AY-102	7/15/98	11/10/98	809,000	15,169	C-106 Retrieval (Project W-320)
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Initial Decant 1AZ
	WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0	First Wash 1AZ
	AZ-101	AP-107	10/9/00	10/10/00	143,200	0	First Decant 1AZ
	WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0	Second Wash 1AZ
	AZ-101	AP-107	12/17/00	12/18/00	140,200	0	Second Decant 1AZ
	WASH-WATER	AZ-101	12/19/00	12/20/00	146,000	0	Third Wash 1AZ
	AZ-101	AP-107	2/7/01	2/7/01	142,900	0	Third Decant 1AZ
	WASH-WATER	AZ-101	2/8/01	2/9/01	138,200	0	Transfer Water Add 1AZ
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Initial Decant 2AZ
	AZ-102	AP-107	11/16/01	11/16/01	181,800	0	Complete Initial Decant 2AZ
	WASH-WATER	AZ-102	11/17/01	11/18/01	213,000	0	First Wash 2AZ
	AZ-101	PIHLW_FEED_TANK	5/17/02	5/17/02	134,300	5,079	Deliver Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-102	AN-105	7/3/02	7/3/02	127,700	0	First Decant 2AZ
	WASH-WATER	AZ-102	7/4/02	7/5/02	213,000	0	Second Wash 2AZ
	AZ-102	AN-105	8/23/02	8/25/02	210,300	0	Second Decant 2AZ
	WASH-WATER	AZ-102	8/26/02	8/27/02	213,000	0	Third Wash 2AZ
	AZ-102	AN-105	10/15/02	10/16/02	211,800	0	Third Decant 2AZ
	WASH-WATER	AZ-102	10/17/02	10/18/02	213,000	0	Fourth Wash 2AZ
	AZ-102	AN-105	12/6/02	12/7/02	212,500	0	Fourth Decant 2AZ
	WASH-WATER	AZ-102	12/9/02	12/9/02	110,000	0	Transfer Water Add 2AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079	Process Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-101	PIHLW_FEED_TANK	2/21/03	2/21/03	134,300	5,079	Deliver Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
X	AY-102	AZ-101	2/22/03	2/26/03	819,600	16,032	Transfer 2AY/6C Slurry to 1AZ for Pretreatment
	AZ-101	AN-105	10/29/03	11/1/03	622,700	0	Initial Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	11/1/03	11/2/03	324,000	0	First Wash 2AY/6C Slurry in 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	2/21/03	11/14/03	134,300	5,079	Process Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
	AZ-102	PIHLW_FEED_TANK	11/14/03	11/14/03	123,900	5,202	Deliver Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-101	AN-105	12/22/03	12/23/03	320,000	0	First Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	12/24/03	12/26/03	324,000	0	Second Wash 2AY/6C Slurry in 1AZ
	AZ-101	AN-105	6/10/04	6/11/04	322,300	0	Second Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	6/13/04	6/15/04	433,600	0	Transfer Water Add 1AZ for 2AY/6C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202	Process Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-102	PIHLW_FEED_TANK	8/7/04	8/8/04	123,900	5,202	Deliver Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	C-104	AY-102	8/1/04	9/8/04	279,100	9,724	C-104 Retrieval (Project W-???)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202	Process Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	AZ-101	PIHLW_FEED_TANK	5/2/05	5/2/05	127,200	3,269	Deliver Batch 1 of 2AY/6C from 1AZ, Envelope D (Batch 5 Overall)
	AY-102	AZ-102	8/1/05	8/2/05	279,400	9,360	Transfer 4C Slurry to 2AZ for Pretreatment
	PIHLW_FEED_TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269	Process Batch 1 of 2AY/6C, Envelope D (Batch 5 Overall)
	AZ-101	PIHLW_FEED_TANK	11/16/05	11/17/05	127,200	3,269	Deliver Batch 2 of 2AY/6C from 1AZ, Envelope D (Batch 6 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269	Process Batch 2 of 2AY/6C, Envelope D (Batch 6 Overall)
	AZ-101	PIHLW_FEED_TANK	6/2/06	6/3/06	127,200	3,269	Deliver Batch 3 of 2AY/6C from 1AZ, Envelope D (Batch 7 Overall)
	AZ-102	AN-105	6/24/06	6/24/06	159,500	0	Initial Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	6/24/06	6/26/06	324,000	0	First Wash 4C Slurry in 2AZ
	AZ-102	AN-105	8/14/06	8/16/06	320,100	0	First Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	8/17/06	8/19/06	324,000	0	Second Wash 4C Slurry in 2AZ
	AZ-102	AN-105	10/20/06	10/21/06	322,700	0	Second Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	10/22/06	10/23/06	150,500	0	Transfer Water Add 2AZ for 4C Slurry

HNF-2321
Revision 0

Table A.2-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 2.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269	Process Batch 3 of 2AY/6C, Envelope D (Batch 7 Overall)
	AZ-101	PIHLW_FEED_TANK	12/18/06	12/18/06	127,200	3,269	Deliver Batch 4 of 2AY/6C from 1AZ, Envelope D (Batch 8 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269	Process Batch 4 of 2AY/6C, Envelope D (Batch 8 Overall)
	AZ-101	PIHLW_FEED_TANK	7/4/07	7/5/07	127,200	3,269	Deliver Batch 5 of 2AY/6C from 1AZ, Envelope D (Batch 9 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269	Process Batch 5 of 2AY/6C, Envelope D (Batch 9 Overall)
	AZ-102	PIHLW_FEED_TANK	1/18/08	1/19/08	137,700	4,774	Deliver Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774	Process Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	AZ-102	PIHLW_FEED_TANK	12/22/08	12/22/08	137,700	4,774	Deliver Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
X	AP-107	AZ-101	6/1/09	6/2/09	271,400	9,319	LAW Returns to 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774	Process Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
1FL96	AW-105	10/1/96	10/1/96	13,000	0
1NS96	AW-105	10/1/96	10/1/96	750	250
34L87	AP-106	10/1/96	10/1/96	10,000	0
BPTCO	AP-106	10/1/96	10/1/96	11,000	0
EVAPF	AP-106	10/1/96	10/1/96	10,000	0
SPN87	AP-106	10/1/96	10/1/96	7,000	0
TAL88	AP-106	10/1/96	10/1/96	4,000	0
TNS88	AP-106	10/1/96	10/1/96	750	250
WATER	SY-102	10/1/96	10/1/96	5,000	0
WESF	AP-106	10/1/96	10/1/96	5,000	0
WNW88	SY-102	10/1/96	10/1/96	19,000	0
ZNL87	SY-102	10/1/96	10/1/96	2,000	0
WATER	AP-106	10/2/96	10/2/96	3,000	0
WATER	AW-105	10/2/96	10/2/96	5,000	0
WATER	SY-102	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	12,000	0
BPTCO	AP-106	11/1/96	11/1/96	10,000	0
EVAPF	AP-106	11/1/96	11/1/96	10,000	0
WATER	SY-102	11/1/96	11/1/96	3,000	0
WNW88	SY-102	11/1/96	11/1/96	14,000	0
BPTCO	AP-106	12/1/96	12/1/96	11,000	0
EVAPF	AP-106	12/1/96	12/1/96	10,000	0
WATER	SY-102	12/1/96	12/1/96	3,000	0
WNW88	SY-102	12/1/96	12/1/96	14,000	0
34L87	AP-106	1/1/97	1/1/97	10,000	0
BPTCO	AP-106	1/1/97	1/1/97	10,000	0
EVAPF	AP-106	1/1/97	1/1/97	10,000	0
SPN87	AP-106	1/1/97	1/1/97	6,000	0
TAL88	AP-106	1/1/97	1/1/97	4,000	0
WATER	SY-102	1/1/97	1/1/97	4,000	0
WESF	AP-106	1/1/97	1/1/97	5,000	0
WNW88	SY-102	1/1/97	1/1/97	14,000	0
AW-106	AP-101	1/4/97	1/4/97	69,511	3
AN-106	AP-108	1/11/97	1/12/97	177,000	7
BPTCO	AP-106	2/1/97	2/1/97	10,000	0
EVAPF	AP-106	2/1/97	2/1/97	10,000	0
WATER	SY-102	2/1/97	2/1/97	4,000	0
WNW88	SY-102	2/1/97	2/1/97	14,000	0
EVAPF	AW-102	2/20/97	2/20/97	50,000	0
AP-105	AW-102	2/20/97	2/24/97	942,000	39
242-A	LERF	2/26/97	3/2/97	405,000	0
242-A	AW-106	2/26/97	3/2/97	622,000	42
AW-102	242-A	2/26/97	3/2/97	1,027,000	42
34L87	AP-106	3/1/97	3/1/97	10,000	0
BPTCO	AP-106	3/1/97	3/1/97	11,000	0
EVAPF	AP-106	3/1/97	3/1/97	10,000	0
PXTCO	AP-106	3/1/97	3/1/97	5,000	0
WATER	SY-102	3/1/97	3/1/97	4,000	0
WATER	AP-106	3/1/97	3/1/97	5,000	0
WNW88	SY-102	3/1/97	3/1/97	16,000	0
EVAPF	AW-102	3/3/97	3/3/97	35,000	0
BPTCO	AP-106	4/1/97	4/1/97	10,000	0
EVAPF	AP-106	4/1/97	4/1/97	10,000	0
SPN87	AP-106	4/1/97	4/1/97	6,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
TAL88	AP-106	4/1/97	4/1/97	4,000	0
WATER	SY-102	4/1/97	4/1/97	6,000	0
WESF	AP-106	4/1/97	4/1/97	5,000	0
WNW88	SY-102	4/1/97	4/1/97	22,000	0
AW-106	AP-105	4/25/97	4/28/97	617,000	29
AY-101	AP-108	4/25/97	4/29/97	809,000	30
34L87	AP-106	5/1/97	5/1/97	10,000	0
BPTCO	AP-106	5/1/97	5/1/97	11,000	0
EVAPF	AP-106	5/1/97	5/1/97	10,000	0
WATER	AP-106	5/1/97	5/1/97	4,000	0
WATER	SY-102	5/1/97	5/1/97	5,000	0
WNW88	SY-102	5/1/97	5/1/97	19,000	0
BPTCO	AP-106	6/1/97	6/1/97	10,000	0
EVAPF	AP-106	6/1/97	6/1/97	10,000	0
WATER	SY-102	6/1/97	6/1/97	4,000	0
WNW88	SY-102	6/1/97	6/1/97	16,000	0
34L87	AP-106	7/1/97	7/1/97	10,000	0
BPTCO	AP-106	7/1/97	7/1/97	11,000	0
EVAPF	AP-106	7/1/97	7/1/97	10,000	0
SPN87	AP-106	7/1/97	7/1/97	6,000	0
TAL88	AP-106	7/1/97	7/1/97	4,000	0
WATER	AN-101	7/1/97	7/1/97	5,000	0
WATER	SY-102	7/1/97	7/1/97	6,000	0
WCE88	AN-101	7/1/97	7/1/97	20,000	0
WESF	AP-106	7/1/97	7/1/97	5,000	0
WNW88	SY-102	7/1/97	7/1/97	24,000	0
AN-106	AP-108	7/25/97	7/26/97	194,000	7
AP-108	AW-102	7/25/97	7/31/97	1,198,000	42
242-A	AW-106	7/28/97	8/2/97	346,700	39
242-A	LERF	7/28/97	8/2/97	851,300	0
AW-102	242-A	7/28/97	8/2/97	1,198,000	39
BPTCO	AP-106	8/1/97	8/1/97	10,000	0
EVAPF	AP-106	8/1/97	8/1/97	10,000	0
WATER	AN-101	8/1/97	8/1/97	6,000	0
WATER	SY-102	8/1/97	8/1/97	13,000	0
WCE88	AN-101	8/1/97	8/1/97	25,000	0
WNW88	SY-102	8/1/97	8/1/97	51,000	0
EVAPF	AW-102	8/3/97	8/3/97	25,000	0
WATER	AP-107	8/20/97	8/20/97	35,000	0
AW-106	AN-106	8/25/97	8/26/97	347,000	16
SY-102	AP-107	8/25/97	8/27/97	520,000	20
BPTCO	AP-106	9/1/97	9/1/97	10,000	0
EVAPF	AP-106	9/1/97	9/1/97	10,000	0
WATER	AN-101	9/1/97	9/1/97	10,000	0
WATER	SY-102	9/1/97	9/1/97	15,000	0
WCE88	AN-101	9/1/97	9/1/97	40,000	0
WNW88	SY-102	9/1/97	9/1/97	61,000	0
34L87	AP-106	10/1/97	10/1/97	7,000	0
34L87	AP-106	10/1/97	10/1/97	10,000	0
BPTCO	AP-106	10/1/97	10/1/97	11,000	0
EVAPF	AP-106	10/1/97	10/1/97	10,000	0
PXTCO	AP-106	10/1/97	10/1/97	5,000	0
SPN87	SY-102	10/1/97	10/1/97	7,000	0
TAL88	AP-106	10/1/97	10/1/97	4,000	0
TNS88	AP-106	10/1/97	10/1/97	750	250
WATER	AP-106	10/1/97	10/1/97	1,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AN-101	10/1/97	10/1/97	2,000	0
WATER	SY-102	10/1/97	10/1/97	4,000	0
WCE88	AN-101	10/1/97	10/1/97	7,000	0
WESF	AP-106	10/1/97	10/1/97	5,000	0
WNE88	AP-106	10/1/97	10/1/97	1,000	0
WNW88	SY-102	10/1/97	10/1/97	18,000	0
ZNL87	SY-102	10/1/97	10/1/97	4,000	0
WASH-CAUSTIC	AN-107	10/2/97	10/2/97	66,000	0
WATER	SY-102	10/2/97	10/2/97	1,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	SY-102	10/2/97	10/2/97	5,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
AY-102	AP-106	10/25/97	10/25/97	35,999	1
WATER	AY-102	10/26/97	10/27/97	176,000	0
EVAPF	AP-106	11/1/97	11/1/97	10,000	0
WATER	AP-106	11/1/97	11/1/97	1,000	0
WATER	SY-102	11/1/97	11/1/97	4,000	0
WATER	AN-101	11/1/97	11/1/97	5,000	0
WCE88	AN-101	11/1/97	11/1/97	20,000	0
WNE88	AP-106	11/1/97	11/1/97	1,000	0
WNW88	SY-102	11/1/97	11/1/97	16,000	0
EVAPF	AP-106	12/1/97	12/1/97	10,000	0
WATER	AP-106	12/1/97	12/1/97	1,000	0
WATER	SY-102	12/1/97	12/1/97	3,000	0
WATER	AN-101	12/1/97	12/1/97	5,000	0
WCE88	AN-101	12/1/97	12/1/97	20,000	0
WNE88	AP-106	12/1/97	12/1/97	1,000	0
WNW88	SY-102	12/1/97	12/1/97	14,000	0
WATER	AP-107	12/20/97	12/20/97	35,000	0
AP-106	AP-104	12/25/97	12/28/97	739,400	25
SY-102	AP-107	12/26/97	12/27/97	351,700	14
34L87	AP-106	1/1/98	1/1/98	10,000	0
BPTCO	AP-106	1/1/98	1/1/98	11,000	0
EVAPF	AP-106	1/1/98	1/1/98	10,000	0
SPN87	SY-102	1/1/98	1/1/98	6,000	0
TAL88	AP-106	1/1/98	1/1/98	4,000	0
WATER	AP-106	1/1/98	1/1/98	1,000	0
WATER	AP-106	1/1/98	1/1/98	4,000	0
WATER	SY-102	1/1/98	1/1/98	4,000	0
WATER	AN-101	1/1/98	1/1/98	5,000	0
WCE88	AN-101	1/1/98	1/1/98	20,000	0
WNE88	AP-106	1/1/98	1/1/98	1,000	0
WNW88	SY-102	1/1/98	1/1/98	14,000	0
EVAPF	AP-106	2/1/98	2/1/98	10,000	0
WATER	AP-106	2/1/98	2/1/98	1,000	0
WATER	SY-102	2/1/98	2/1/98	4,000	0
WATER	AN-101	2/1/98	2/1/98	5,000	0
WCE88	AN-101	2/1/98	2/1/98	20,000	0
WNE88	AP-106	2/1/98	2/1/98	1,000	0
WNW88	SY-102	2/1/98	2/1/98	14,000	0
34L87	AP-106	3/1/98	3/1/98	10,000	0
BPTCO	AP-106	3/1/98	3/1/98	11,000	0
EVAPF	AP-106	3/1/98	3/1/98	10,000	0
WATER	AP-106	3/1/98	3/1/98	1,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	3/1/98	3/1/98	3,000	0
WATER	AP-106	3/1/98	3/1/98	5,000	0
WATER	AN-101	3/1/98	3/1/98	5,000	0
WCE88	AN-101	3/1/98	3/1/98	20,000	0
WNE88	AP-106	3/1/98	3/1/98	1,000	0
WNNW88	SY-102	3/1/98	3/1/98	10,000	0
WATER	AP-104	3/20/98	3/20/98	35,000	0
SY-102	AP-104	3/25/98	3/25/98	55,010	2
AP-104	AW-102	3/25/98	3/29/98	827,900	26
242-A	AW-106	3/28/98	4/1/98	151,300	24
242-A	LERF	3/28/98	4/1/98	737,100	0
AW-102	242-A	3/28/98	4/1/98	888,400	24
EVAPF	AP-106	4/1/98	4/1/98	10,000	0
SPN87	SY-102	4/1/98	4/1/98	6,000	0
TAL88	AP-106	4/1/98	4/1/98	4,000	0
WATER	AP-106	4/1/98	4/1/98	1,000	0
WATER	SY-102	4/1/98	4/1/98	3,000	0
WATER	AN-101	4/1/98	4/1/98	5,000	0
WCE88	AN-101	4/1/98	4/1/98	20,000	0
WNE88	AP-106	4/1/98	4/1/98	1,000	0
WNNW88	SY-102	4/1/98	4/1/98	10,000	0
34L87	AP-106	5/1/98	5/1/98	10,000	0
BPTCO	AP-106	5/1/98	5/1/98	11,000	0
EVAPF	AP-106	5/1/98	5/1/98	10,000	0
WATER	AP-106	5/1/98	5/1/98	1,000	0
WATER	SY-102	5/1/98	5/1/98	3,000	0
WATER	AP-106	5/1/98	5/1/98	4,000	0
WATER	AN-101	5/1/98	5/1/98	5,000	0
WCE88	AN-101	5/1/98	5/1/98	20,000	0
WNE88	AP-106	5/1/98	5/1/98	1,000	0
WNNW88	SY-102	5/1/98	5/1/98	10,000	0
AP-107	AW-102	5/25/98	5/29/98	936,200	33
242-A	AW-106	5/28/98	6/1/98	380,500	32
242-A	LERF	5/28/98	6/1/98	555,600	0
AW-102	242-A	5/28/98	6/1/98	936,100	32
EVAPF	AP-106	6/1/98	6/1/98	10,000	0
WATER	AP-106	6/1/98	6/1/98	1,000	0
WATER	SY-102	6/1/98	6/1/98	3,000	0
WATER	AN-101	6/1/98	6/1/98	4,000	0
WCE88	AN-101	6/1/98	6/1/98	15,000	0
WNE88	AP-106	6/1/98	6/1/98	1,000	0
WNNW88	SY-102	6/1/98	6/1/98	10,000	0
EVAPF	AW-102	6/3/98	6/3/98	35,000	0
WATER	AP-104	6/20/98	6/20/98	35,000	0
SY-102	AP-104	6/25/98	6/25/98	45,008	2
AW-106	AP-105	6/25/98	6/26/98	341,000	15
34L87	AP-106	7/1/98	7/1/98	10,000	0
EVAPF	AP-106	7/1/98	7/1/98	10,000	0
SPN87	SY-102	7/1/98	7/1/98	6,000	0
TAL88	AP-106	7/1/98	7/1/98	4,000	0
WATER	SY-102	7/1/98	7/1/98	3,000	0
WATER	AP-106	7/1/98	7/1/98	4,000	0
WATER	AN-101	7/1/98	7/1/98	4,000	0
WCE88	AN-101	7/1/98	7/1/98	14,000	0
WNNW88	SY-102	7/1/98	7/1/98	10,000	0
AY-102	C-106	7/1/98	7/5/98	920,700	31

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid		Solid	
				(gallons)			
BPTCO	AP-106	7/11/98	7/11/98	11,000	0	0	0
C-106	AV-102	7/15/98	11/10/98	809,000	15,169	0	0
EVAPF	AP-106	8/1/98	8/1/98	10,000	0	0	0
WATER	SY-102	8/1/98	8/1/98	3,000	0	0	0
WATER	AN-101	8/1/98	8/1/98	4,000	0	0	0
WCBS88	AN-101	8/1/98	8/1/98	14,000	0	0	0
WNW88	SY-102	8/1/98	8/1/98	10,000	0	0	0
EVAPF	AP-106	9/1/98	9/1/98	10,000	0	0	0
WATER	SY-102	9/1/98	9/1/98	2,000	0	0	0
WATER	AN-101	9/1/98	9/1/98	4,000	0	0	0
WCBS88	AN-101	9/1/98	9/1/98	14,000	0	0	0
WNW88	AP-106	9/1/98	9/1/98	22,000	0	0	0
WNW88	SY-102	9/1/98	9/1/98	6,000	0	0	0
WATER	AP-107	9/20/98	9/20/98	35,000	0	0	0
SY-102	AP-107	9/25/98	9/25/98	40,007	2	0	0
AP-101	AW-103	9/25/98	9/25/98	625,000	27	0	0
34L87	AP-106	10/1/98	10/1/98	10,000	0	0	0
EVAPF	AP-106	10/1/98	10/1/98	10,000	0	0	0
PXTCO	AP-106	10/1/98	10/1/98	5,000	0	0	0
SPN87	SY-102	10/1/98	10/1/98	7,000	0	0	0
TAL88	AP-106	10/1/98	10/1/98	4,000	0	0	0
TNS88	AP-106	10/1/98	10/1/98	750	250	0	0
WATER	SY-102	10/1/98	10/1/98	2,000	0	0	0
WATER	AN-101	10/1/98	10/1/98	4,000	0	0	0
WATER	AP-106	10/1/98	10/1/98	5,000	0	0	0
WCBS88	AN-101	10/1/98	10/1/98	14,000	0	0	0
WEST	AP-106	10/1/98	10/1/98	5,000	0	0	0
WNW88	AP-106	10/1/98	10/1/98	22,000	0	0	0
SY-102	SY-102	10/1/98	10/1/98	6,000	0	0	0
ZNL87	SY-102	10/1/98	10/1/98	4,000	0	0	0
WATER	AP-106	10/2/98	10/2/98	3,000	0	0	0
WATER	AP-106	10/2/98	10/2/98	5,000	0	0	0
WATER	SY-102	10/2/98	10/2/98	5,000	0	0	0
EVAPF	AW-102	10/4/98	10/4/98	50,000	0	0	0
AP-104	AW-102	10/5/98	10/5/98	80,008	2	0	0
AP-106	AW-102	10/9/98	10/9/98	150,000	5	0	0
AW-104	AP-107	10/9/98	10/9/98	540,000	18	0	0
AP-104	AP-104	10/18/98	10/18/98	164,000	6	0	0
AP-101	AW-104	10/23/98	10/23/98	460,000	20	0	0
AW-106	AP-101	10/30/98	10/30/98	289,000	12	0	0
EVAPF	AP-106	11/1/98	11/1/98	10,000	0	0	0
WATER	SY-102	11/1/98	11/1/98	2,000	0	0	0
WATER	AN-101	11/1/98	11/1/98	4,000	0	0	0
WCBS88	AP-106	11/1/98	11/1/98	5,000	0	0	0
WNW88	AN-101	11/1/98	11/1/98	14,000	0	0	0
WCBS88	AP-106	11/1/98	11/1/98	22,000	0	0	0
WNW88	SY-102	11/1/98	11/1/98	6,000	0	0	0
WATER	AP-106	11/5/98	11/5/98	55,857	2	0	0
AW-106	AW-102	12/1/98	12/1/98	10,000	0	0	0
EVAPF	AP-106	12/1/98	12/1/98	10,000	0	0	0
WATER	WATER	12/1/98	12/1/98	2,000	0	0	0
WATER	AN-101	12/1/98	12/1/98	4,000	0	0	0
WATER	AP-106	12/1/98	12/1/98	7,000	0	0	0
WCBS88	AN-101	12/1/98	12/1/98	14,000	0	0	0
WNW88	AP-106	12/1/98	12/1/98	29,000	0	0	0
WNW88	AN-101	12/1/98	12/1/98	14,000	0	0	0
WNW88	AP-106	12/1/98	12/1/98	29,000	0	0	0
WNW88	SY-102	12/1/98	12/1/98	6,000	0	0	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-104	12/20/98	12/20/98	35,000	0
AW-106	AP-101	12/25/98	12/25/98	0	0
SY-102	AP-104	12/25/98	12/25/98	40,007	2
34L87	AP-106	1/1/99	1/1/99	10,000	0
EVAPF	AP-106	1/1/99	1/1/99	10,000	0
SPN87	SY-102	1/1/99	1/1/99	6,000	0
TAL88	AP-106	1/1/99	1/1/99	4,000	0
WATER	SY-102	1/1/99	1/1/99	2,000	0
WATER	AP-106	1/1/99	1/1/99	4,000	0
WATER	AN-101	1/1/99	1/1/99	4,000	0
WATER	AP-106	1/1/99	1/1/99	10,000	0
WCE88	AN-101	1/1/99	1/1/99	14,000	0
WNE88	AP-106	1/1/99	1/1/99	39,000	0
WNNW88	SY-102	1/1/99	1/1/99	6,000	0
AP-106	AP-104	1/25/99	1/27/99	385,000	14
EVAPF	AP-106	2/1/99	2/1/99	10,000	0
WATER	SY-102	2/1/99	2/1/99	2,000	0
WATER	AN-101	2/1/99	2/1/99	7,000	0
WATER	AP-106	2/1/99	2/1/99	10,000	0
WCE88	AN-101	2/1/99	2/1/99	28,000	0
WNE88	AP-106	2/1/99	2/1/99	39,000	0
WNNW88	SY-102	2/1/99	2/1/99	6,000	0
34L87	AP-106	3/1/99	3/1/99	10,000	0
EVAPF	AP-106	3/1/99	3/1/99	10,000	0
WATER	SY-102	3/1/99	3/1/99	2,000	0
WATER	AP-106	3/1/99	3/1/99	5,000	0
WATER	AN-101	3/1/99	3/1/99	7,000	0
WATER	AP-106	3/1/99	3/1/99	9,000	0
WCE88	AN-101	3/1/99	3/1/99	28,000	0
WNE88	AP-106	3/1/99	3/1/99	36,000	0
WNNW88	SY-102	3/1/99	3/1/99	6,000	0
AN-101	AP-103	3/5/99	3/8/99	593,500	0
AP-107	AW-102	3/5/99	3/8/99	615,000	20
242-A	AW-106	3/8/99	3/11/99	221,100	19
242-A	LERF	3/8/99	3/11/99	464,700	0
AW-102	242-A	3/8/99	3/11/99	685,900	19
AP-108	AP-107	3/15/99	3/15/99	500	0
AP-106	AP-107	3/15/99	3/16/99	213,200	8
WATER	AP-107	3/20/99	3/20/99	35,000	0
SY-102	AP-107	3/25/99	3/25/99	30,006	1
SPN87	SY-102	4/1/99	4/1/99	6,000	0
TAL88	AP-107	4/1/99	4/1/99	4,000	0
WATER	SY-102	4/1/99	4/1/99	2,000	0
WATER	AP-107	4/1/99	4/1/99	4,000	0
WATER	AP-107	4/1/99	4/1/99	7,000	0
WATER	AN-101	4/1/99	4/1/99	7,000	0
WCE88	AN-101	4/1/99	4/1/99	28,000	0
WNE88	AP-107	4/1/99	4/1/99	31,000	0
WNNW88	SY-102	4/1/99	4/1/99	10,000	0
EVAPF	AW-102	4/2/99	4/2/99	35,000	0
EVAPF	AP-107	4/3/99	4/3/99	10,000	0
WCE88	AP-107	4/3/99	4/3/99	17,000	0
34L87	AP-107	5/1/99	5/1/99	10,000	0
EVAPF	AP-107	5/1/99	5/1/99	10,000	0
WATER	AP-107	5/1/99	5/1/99	4,000	0
WATER	AP-107	5/1/99	5/1/99	4,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	5/1/99	5/1/99	5,000	0
WATER	AP-107	5/1/99	5/1/99	7,000	0
WATER	AN-101	5/1/99	5/1/99	7,000	0
WCE88	AP-107	5/1/99	5/1/99	17,000	0
WCE88	AN-101	5/1/99	5/1/99	28,000	0
WNE88	AP-107	5/1/99	5/1/99	31,000	0
WNW88	SY-102	5/1/99	5/1/99	20,000	0
AP-103	AP-107	5/15/99	5/17/99	586,800	25
AP-107	AW-102	5/17/99	5/22/99	882,400	0
EVAPF	AP-107	6/1/99	6/1/99	10,000	0
WATER	AP-107	6/1/99	6/1/99	4,000	0
WATER	AP-107	6/1/99	6/1/99	6,000	0
WATER	AN-101	6/1/99	6/1/99	7,000	0
WATER	SY-102	6/1/99	6/1/99	10,000	0
WCE88	AP-107	6/1/99	6/1/99	17,000	0
WCE88	AN-101	6/1/99	6/1/99	28,000	0
WNE88	AP-107	6/1/99	6/1/99	26,000	0
WNW88	SY-102	6/1/99	6/1/99	39,000	0
AW-106	AW-104	6/1/99	6/2/99	221,000	8
AP-102	AP-103	6/15/99	6/20/99	1,070,000	0
WATER	AP-107	6/20/99	6/20/99	35,000	0
34L87	AP-107	7/1/99	7/1/99	10,000	0
EVAPF	AP-107	7/1/99	7/1/99	10,000	0
SPN87	SY-102	7/1/99	7/1/99	6,000	0
TAL88	AP-107	7/1/99	7/1/99	4,000	0
WATER	AP-107	7/1/99	7/1/99	3,000	0
WATER	AP-107	7/1/99	7/1/99	4,000	0
WATER	AP-107	7/1/99	7/1/99	5,000	0
WATER	AN-101	7/1/99	7/1/99	7,000	0
WATER	SY-102	7/1/99	7/1/99	14,000	0
WCE88	AP-107	7/1/99	7/1/99	11,000	0
WCE88	AN-101	7/1/99	7/1/99	28,000	0
WNE88	AP-107	7/1/99	7/1/99	20,000	0
WNW88	SY-102	7/1/99	7/1/99	57,000	0
AP-104	AP-107	7/15/99	7/16/99	300,000	10
EVAPF	AP-107	8/1/99	8/1/99	10,000	0
WATER	AP-107	8/1/99	8/1/99	3,000	0
WATER	AP-107	8/1/99	8/1/99	3,000	0
WATER	AN-101	8/1/99	8/1/99	7,000	0
WATER	SY-102	8/1/99	8/1/99	20,000	0
WCE88	AP-107	8/1/99	8/1/99	11,000	0
WCE88	AN-101	8/1/99	8/1/99	28,000	0
WNE88	AP-107	8/1/99	8/1/99	13,000	0
WNW88	SY-102	8/1/99	8/1/99	82,000	0
EVAPF	AP-107	9/1/99	9/1/99	10,000	0
WATER	AP-107	9/1/99	9/1/99	2,000	0
WATER	AP-107	9/1/99	9/1/99	3,000	0
WATER	AN-101	9/1/99	9/1/99	6,000	0
WATER	SY-102	9/1/99	9/1/99	19,000	0
WCE88	AP-107	9/1/99	9/1/99	11,000	0
WCE88	AN-101	9/1/99	9/1/99	23,000	0
WNE88	AP-107	9/1/99	9/1/99	13,000	0
WNW88	SY-102	9/1/99	9/1/99	76,000	0
WATER	AP-107	9/25/99	9/25/99	35,000	0
1FL96	AW-105	10/1/99	10/1/99	40,000	0
1KL96	AW-105	10/1/99	10/1/99	30,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
INS96	AW-105	10/1/99	10/1/99	750	250
34L87	AP-107	10/1/99	10/1/99	10,000	0
EVAPF	AP-107	10/1/99	10/1/99	10,000	0
PXTCO	AP-107	10/1/99	10/1/99	5,000	0
SPN87	SY-102	10/1/99	10/1/99	7,000	0
TAL88	AP-107	10/1/99	10/1/99	6,000	0
TNS88	AP-107	10/1/99	10/1/99	750	250
WATER	AP-107	10/1/99	10/1/99	2,000	0
WATER	AP-107	10/1/99	10/1/99	3,000	0
WATER	AN-101	10/1/99	10/1/99	6,000	0
WATER	SY-102	10/1/99	10/1/99	20,000	0
WCE88	AP-107	10/1/99	10/1/99	11,000	0
WCE88	AN-101	10/1/99	10/1/99	23,000	0
WESF	AP-107	10/1/99	10/1/99	5,000	0
WNE88	AP-107	10/1/99	10/1/99	10,000	0
WNNW88	SY-102	10/1/99	10/1/99	79,000	0
ZNL87	SY-102	10/1/99	10/1/99	4,000	0
WATER	SY-102	10/2/99	10/2/99	5,000	0
WATER	AP-107	10/2/99	10/2/99	5,000	0
WATER	AP-107	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	13,000	0
WATER	AW-105	10/2/99	10/2/99	17,000	0
EVAPF	AP-107	11/1/99	11/1/99	10,000	0
WATER	AP-107	11/1/99	11/1/99	2,000	0
WATER	AP-107	11/1/99	11/1/99	3,000	0
WATER	AN-101	11/1/99	11/1/99	6,000	0
WATER	SY-102	11/1/99	11/1/99	23,000	0
WCE88	AP-107	11/1/99	11/1/99	11,000	0
WCE88	AN-101	11/1/99	11/1/99	23,000	0
WNE88	AP-107	11/1/99	11/1/99	10,000	0
WNNW88	SY-102	11/1/99	11/1/99	93,000	0
EVAPF	AW-102	11/17/99	11/17/99	35,000	0
242-A	LERF	11/19/99	11/24/99	341,800	0
242-A	AW-106	11/19/99	11/24/99	610,500	38
AW-102	242-A	11/19/99	11/24/99	952,400	38
AW-106	AW-102	11/24/99	11/27/99	610,400	27
EVAPF	AP-107	12/1/99	12/1/99	10,000	0
WATER	AP-107	12/1/99	12/1/99	1,000	0
WATER	AP-107	12/1/99	12/1/99	1,000	0
WATER	AN-101	12/1/99	12/1/99	4,000	0
WATER	SY-102	12/1/99	12/1/99	26,000	0
WCE88	AP-107	12/1/99	12/1/99	6,000	0
WCE88	AN-101	12/1/99	12/1/99	17,000	0
WNE88	AP-107	12/1/99	12/1/99	3,000	0
WNNW88	SY-102	12/1/99	12/1/99	105,000	0
EVAPF	AW-102	12/3/99	12/3/99	35,000	0
242-A	LERF	12/11/99	12/15/99	188,300	0
242-A	AW-106	12/11/99	12/15/99	457,100	28
AW-102	242-A	12/11/99	12/15/99	645,400	28
AP-107	AW-102	12/15/99	12/19/99	844,600	0
34L87	AP-107	1/1/00	1/1/00	10,000	0
EVAPF	AP-107	1/1/00	1/1/00	10,000	0
SPN87	SY-102	1/1/00	1/1/00	6,000	0
TAL88	AP-107	1/1/00	1/1/00	6,000	0
WATER	AP-107	1/1/00	1/1/00	1,000	0
WATER	AP-107	1/1/00	1/1/00	1,000	0

HNF-2321
Revision 0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-107	1/1/00	1/1/00	4,000	0
WATER	AN-101	1/1/00	1/1/00	4,000	0
WATER	SY-102	1/1/00	1/1/00	24,000	0
WCE88	AP-107	1/1/00	1/1/00	6,000	0
WCE88	AN-101	1/1/00	1/1/00	17,000	0
WNE88	AP-107	1/1/00	1/1/00	3,000	0
WNV88	SY-102	1/1/00	1/1/00	98,000	0
WATER	AP-107	1/20/00	1/20/00	35,000	0
EVAPF	AP-107	2/1/00	2/1/00	10,000	0
WATER	AP-107	2/1/00	2/1/00	1,000	0
WATER	AP-107	2/1/00	2/1/00	1,000	0
WATER	AN-101	2/1/00	2/1/00	4,000	0
WATER	SY-102	2/1/00	2/1/00	22,000	0
WCE88	AP-107	2/1/00	2/1/00	5,000	0
WCE88	AN-101	2/1/00	2/1/00	17,000	0
WNE88	AP-107	2/1/00	2/1/00	3,000	0
WNV88	SY-102	2/1/00	2/1/00	90,000	0
SY-102	AP-107	2/15/00	2/18/00	750,000	30
34L87	AP-107	3/1/00	3/1/00	10,000	0
EVAPF	AP-107	3/1/00	3/1/00	10,000	0
WATER	AP-107	3/1/00	3/1/00	1,000	0
WATER	AP-107	3/1/00	3/1/00	1,000	0
WATER	AN-101	3/1/00	3/1/00	4,000	0
WATER	AP-107	3/1/00	3/1/00	5,000	0
WATER	SY-102	3/1/00	3/1/00	21,000	0
WCE88	AP-107	3/1/00	3/1/00	3,000	0
WCE88	AN-101	3/1/00	3/1/00	17,000	0
WNE88	AP-107	3/1/00	3/1/00	3,000	0
WNV88	SY-102	3/1/00	3/1/00	82,000	0
AW-106	AN-106	3/15/00	3/17/00	457,100	21
EVAPF	AP-107	4/1/00	4/1/00	10,000	0
SPN87	SY-102	4/1/00	4/1/00	6,000	0
TAL88	AP-107	4/1/00	4/1/00	6,000	0
WATER	AP-107	4/1/00	4/1/00	1,000	0
WATER	SY-102	4/1/00	4/1/00	20,000	0
WATER	AN-101	4/1/00	4/1/00	20,000	0
WCE88	AP-107	4/1/00	4/1/00	3,000	0
WCE88	AN-101	4/1/00	4/1/00	81,000	0
WNV88	SY-102	4/1/00	4/1/00	79,000	0
34L87	AP-107	5/1/00	5/1/00	10,000	0
EVAPF	AP-107	5/1/00	5/1/00	10,000	0
WATER	AP-107	5/1/00	5/1/00	1,000	0
WATER	AP-107	5/1/00	5/1/00	4,000	0
WATER	AN-101	5/1/00	5/1/00	20,000	0
WATER	SY-102	5/1/00	5/1/00	22,000	0
WCE88	AP-107	5/1/00	5/1/00	3,000	0
WCE88	AN-101	5/1/00	5/1/00	81,000	0
WNV88	SY-102	5/1/00	5/1/00	88,000	0
EVAPF	AP-107	6/1/00	6/1/00	10,000	0
WATER	AP-107	6/1/00	6/1/00	1,000	0
WATER	AN-101	6/1/00	6/1/00	4,000	0
WATER	SY-102	6/1/00	6/1/00	23,000	0
WCE88	AP-107	6/1/00	6/1/00	3,000	0
WCE88	AN-101	6/1/00	6/1/00	14,000	0
WNV88	SY-102	6/1/00	6/1/00	91,000	0
242-A	LERF	6/3/00	6/7/00	303,200	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	6/3/00	6/7/00	541,600	32
AW-102	242-A	6/3/00	6/7/00	844,900	32
AW-106	AW-102	6/8/00	6/11/00	541,500	22
242-A	LERF	6/25/00	6/28/00	193,800	0
242-A	AW-106	6/25/00	6/28/00	347,700	22
AW-102	242-A	6/25/00	6/28/00	541,500	22
AW-106	AW-102	6/28/00	6/29/00	347,600	15
34L87	AP-107	7/1/00	7/1/00	10,000	0
EVAPF	AP-107	7/1/00	7/1/00	10,000	0
SPN87	SY-102	7/1/00	7/1/00	6,000	0
TAL88	AP-107	7/1/00	7/1/00	5,000	0
WATER	AP-107	7/1/00	7/1/00	1,000	0
WATER	AP-107	7/1/00	7/1/00	4,000	0
WATER	AN-101	7/1/00	7/1/00	4,000	0
WATER	SY-102	7/1/00	7/1/00	25,000	0
WCE88	AP-107	7/1/00	7/1/00	3,000	0
WCE88	AN-101	7/1/00	7/1/00	14,000	0
WNW88	SY-102	7/1/00	7/1/00	98,000	0
242-A	LERF	7/14/00	7/15/00	69,734	0
242-A	AW-106	7/14/00	7/15/00	278,000	15
AW-102	242-A	7/14/00	7/15/00	347,700	15
AP-107	AW-102	7/16/00	7/21/00	917,800	0
EVAPF	AP-107	8/1/00	8/1/00	10,000	0
WATER	AN-101	8/1/00	8/1/00	4,000	0
WATER	SY-102	8/1/00	8/1/00	5,000	0
WATER	SY-102	8/1/00	8/1/00	24,000	0
WCE88	AP-107	8/1/00	8/1/00	2,000	0
WCE88	AN-101	8/1/00	8/1/00	14,000	0
WCW88	SY-102	8/1/00	8/1/00	19,000	0
WNW88	SY-102	8/1/00	8/1/00	93,000	0
EVAPF	AW-102	8/3/00	8/3/00	35,000	0
SY-102	AP-104	8/15/00	8/18/00	750,000	31
AZ-101	AY-101	8/17/00	8/20/00	685,000	0
AZ-101	AP-107	8/20/00	8/20/00	0	0
WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0
EVAPF	AP-107	9/1/00	9/1/00	10,000	0
WATER	AN-101	9/1/00	9/1/00	4,000	0
WATER	SY-102	9/1/00	9/1/00	5,000	0
WATER	SY-102	9/1/00	9/1/00	22,000	0
WCE88	AP-107	9/1/00	9/1/00	1,000	0
WCE88	AN-101	9/1/00	9/1/00	14,000	0
WCW88	SY-102	9/1/00	9/1/00	19,000	0
WNW88	SY-102	9/1/00	9/1/00	88,000	0
INS96	AW-105	10/1/00	10/1/00	13,502	4,498
PXTCO	AP-107	10/1/00	10/1/00	5,000	0
SPN87	SY-102	10/1/00	10/1/00	25,000	0
TAL88	AP-107	10/1/00	10/1/00	23,000	0
TNS88	AP-107	10/1/00	10/1/00	750	250
WATER	AN-101	10/1/00	10/1/00	2,000	0
WATER	SY-102	10/1/00	10/1/00	3,000	0
WATER	SY-102	10/1/00	10/1/00	103,000	0
WCE88	AN-101	10/1/00	10/1/00	9,000	0
WCW88	SY-102	10/1/00	10/1/00	13,000	0
WESF	AP-107	10/1/00	10/1/00	5,000	0
WNW88	SY-102	10/1/00	10/1/00	26,000	0
ZNL87	SY-102	10/1/00	10/1/00	4,000	0

HNF-2321
Revision 0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
1KL96	AW-105	10/1/00	10/2/00	302,000	0
34L87	AP-107	10/1/00	10/2/00	50,000	0
EVAPF	AP-107	10/1/00	10/2/00	120,000	0
34L87	AP-107	10/2/00	10/2/00	7,000	0
WATER	SY-102	10/2/00	10/2/00	1,000	0
WATER	SY-102	10/2/00	10/2/00	5,000	0
WATER	AW-105	10/2/00	10/2/00	132,000	0
WATER	AW-105	10/2/00	10/3/00	7,000	0
WATER	AP-107	10/3/00	10/3/00	3,000	0
WATER	AP-107	10/3/00	10/3/00	5,000	0
WATER	AP-107	10/3/00	10/3/00	22,000	0
EVAPF	AW-102	10/4/00	10/4/00	50,000	0
AZ-101	AP-107	10/9/00	10/10/00	143,200	0
WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0
AW-106	AN-106	10/15/00	10/16/00	250,000	12
WATER	AN-101	11/1/00	11/1/00	2,000	0
WATER	SY-102	11/1/00	11/1/00	3,000	0
WATER	SY-102	11/1/00	11/1/00	28,000	0
WCE88	AN-101	11/1/00	11/1/00	9,000	0
WCW88	SY-102	11/1/00	11/1/00	13,000	0
WNW88	SY-102	11/1/00	11/1/00	111,000	0
EVAPF	AW-102	11/3/00	11/3/00	35,000	0
AZ-101	AP-107	11/30/00	12/1/00	140,200	0
WATER	AN-101	12/1/00	12/1/00	2,000	0
WATER	SY-102	12/1/00	12/1/00	2,000	0
WATER	SY-102	12/1/00	12/1/00	25,000	0
WCE88	AN-101	12/1/00	12/1/00	9,000	0
WCW88	SY-102	12/1/00	12/1/00	8,000	0
WNW88	SY-102	12/1/00	12/1/00	99,000	0
WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0
WATER	SY-102	1/1/01	1/1/01	2,000	0
WATER	AN-101	1/1/01	1/1/01	2,000	0
WATER	SY-102	1/1/01	1/1/01	26,000	0
WCE88	AN-101	1/1/01	1/1/01	9,000	0
WCW88	SY-102	1/1/01	1/1/01	8,000	0
WNW88	SY-102	1/1/01	1/1/01	105,000	0
242-A	LERF	1/2/01	1/8/01	372,000	0
242-A	AW-106	1/2/01	1/8/01	665,900	40
AW-102	242-A	1/2/01	1/8/01	1,038,000	40
AW-106	AW-102	1/8/01	1/12/01	693,700	29
SY-102	AP-102	1/15/01	1/19/01	914,500	37
AZ-101	AP-107	1/20/01	1/21/01	142,900	0
WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0
242-A	LERF	1/26/01	1/30/01	237,900	0
242-A	AW-106	1/26/01	1/30/01	455,700	29
AW-102	242-A	1/26/01	1/30/01	693,700	29
WATER	SY-102	2/1/01	2/1/01	1,000	0
WATER	AN-101	2/1/01	2/1/01	2,000	0
WATER	SY-102	2/1/01	2/1/01	23,000	0
WCE88	AN-101	2/1/01	2/1/01	9,000	0
WCW88	SY-102	2/1/01	2/1/01	3,000	0
WNW88	SY-102	2/1/01	2/1/01	91,000	0
AW-106	AP-101	2/15/01	2/17/01	455,700	21
AP-104	AW-102	2/16/01	2/20/01	917,800	0
WATER	SY-102	3/1/01	3/1/01	1,000	0
WATER	AN-101	3/1/01	3/1/01	2,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	3/1/01	3/1/01	28,000	0
WCE88	AN-101	3/1/01	3/1/01	9,000	0
WCW88	SY-102	3/1/01	3/1/01	2,000	0
WNW88	SY-102	3/1/01	3/1/01	112,000	0
242-A	LERF	3/7/01	3/12/01	330,000	0
242-A	AW-106	3/7/01	3/12/01	588,100	36
AW-102	242-A	3/7/01	3/12/01	918,100	36
AW-106	AW-102	3/12/01	3/15/01	588,000	25
242-A	LERF	3/30/01	4/1/01	182,900	0
242-A	AW-106	3/30/01	4/1/01	405,100	25
AW-102	242-A	3/30/01	4/1/01	588,000	25
WATER	AN-101	4/1/01	4/1/01	2,000	0
WCE88	AN-101	4/1/01	4/1/01	9,000	0
WATER	SY-102	4/15/01	4/15/01	27,000	0
WNW88	SY-102	4/15/01	4/15/01	108,000	0
WATER	AP-107	5/1/01	5/1/01	2,000	0
WATER	SY-102	5/1/01	5/1/01	29,000	0
WATER	AW-102	5/1/01	5/1/01	35,000	0
WCE88	AP-107	5/1/01	5/1/01	9,000	0
WNW88	SY-102	5/1/01	5/1/01	118,000	0
AW-106	AP-101	5/1/01	5/2/01	300,000	14
AP-102	AW-102	5/2/01	5/6/01	883,100	0
EVAPF	AW-102	5/3/01	5/3/01	35,000	0
AP-104	AP-107	6/1/01	6/1/01	155,800	6
WATER	AP-107	6/1/01	6/1/01	2,000	0
WATER	SY-102	6/1/01	6/1/01	25,000	0
WCE88	AP-107	6/1/01	6/1/01	9,000	0
WNW88	SY-102	6/1/01	6/1/01	100,000	0
WASH-WATER	AP-104	6/15/01	6/16/01	200,000	0
WATER	AP-107	7/1/01	7/1/01	1,000	0
WATER	SY-102	7/1/01	7/1/01	31,000	0
WCE88	AP-107	7/1/01	7/1/01	3,000	0
WNW88	SY-102	7/1/01	7/1/01	123,000	0
AP-104	AP-102	7/1/01	7/2/01	200,400	32
AP-102	AP-106	7/15/01	7/16/01	231,800	61
242-A	LERF	7/23/01	7/28/01	342,000	0
242-A	AW-106	7/23/01	7/28/01	611,300	38
AW-102	242-A	7/23/01	7/28/01	953,300	38
AW-106	AW-102	7/28/01	8/1/01	716,300	31
WATER	AP-107	8/1/01	8/1/01	1,000	0
WATER	SY-102	8/1/01	8/1/01	25,000	0
WCE88	AP-107	8/1/01	8/1/01	3,000	0
WNW88	SY-102	8/1/01	8/1/01	101,000	0
AN-105	AP-102	8/1/01	8/4/01	542,400	7,895
AN-105	AP-102	8/1/01	8/4/01	686,500	294
LERF	AN-105-PUMP	8/1/01	8/4/01	154,100	0
AN-105	AP-104	8/5/01	8/8/01	542,400	7,895
AN-105	AP-104	8/5/01	8/8/01	686,500	294
LERF	AN-105-PUMP	8/5/01	8/8/01	154,100	0
AP-108	AN-105	8/9/01	8/9/01	0	0
AP-106	AP-108	8/10/01	8/11/01	240,100	687
AP-108	AN-105	8/12/01	8/13/01	240,200	618
242-A	LERF	8/15/01	8/18/01	166,800	0
242-A	AW-106	8/15/01	8/18/01	549,400	31
AW-102	242-A	8/15/01	8/18/01	716,200	31
AP-107	AW-102	8/19/01	8/23/01	918,300	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AN-105	9/1/01	9/1/01	1,000	0
WATER	SY-102	9/1/01	9/1/01	16,800	0
WCE88	AN-105	9/1/01	9/1/01	3,000	0
WNNW88	SY-102	9/1/01	9/1/01	19,500	0
SY-102	AN-105	9/15/01	9/19/01	800,000	33
WATER	SY-102	9/19/01	9/19/01	2,200	0
WNNW88	SY-102	9/19/01	9/19/01	54,500	0
34L87	AN-105	10/1/01	10/1/01	16,800	0
EVAPF	AN-105	10/1/01	10/1/01	9,932	0
SPN87	SY-102	10/1/01	10/1/01	25,000	0
TAL88	AN-105	10/1/01	10/1/01	0	0
TNS88	AN-105	10/1/01	10/1/01	750	250
WATER	AN-105	10/1/01	10/1/01	1,000	0
WATER	SY-102	10/1/01	10/1/01	6,000	0
WATER	SY-102	10/1/01	10/1/01	16,000	0
WATER	AN-105	10/1/01	10/1/01	35,000	0
WCE88	AN-105	10/1/01	10/1/01	3,000	0
WCW88	SY-102	10/1/01	10/1/01	23,000	0
WESF	AN-105	10/1/01	10/1/01	5,000	0
WNNW88	SY-102	10/1/01	10/1/01	62,000	0
ZNL87	SY-102	10/1/01	10/1/01	4,000	0
WATER	SY-102	10/2/01	10/2/01	5,000	0
WATER	AP-106	10/2/01	10/2/01	5,000	0
WATER	AP-106	10/2/01	10/2/01	22,000	0
AN-105	AN-101	10/15/01	10/16/01	300,000	12
AW-106	AP-107	10/15/01	10/17/01	549,400	26
WATER	AN-105	11/1/01	11/1/01	1,000	0
WATER	SY-102	11/1/01	11/1/01	6,000	0
WATER	SY-102	11/1/01	11/1/01	12,000	0
WCE88	AN-105	11/1/01	11/1/01	3,000	0
WCW88	SY-102	11/1/01	11/1/01	23,000	0
WNNW88	SY-102	11/1/01	11/1/01	47,000	0
EVAPF	AW-102	11/3/01	11/3/01	35,000	0
AZ-102	AY-101	11/14/01	11/15/01	204,000	0
AZ-102	AP-107	11/15/01	11/16/01	181,800	0
WASH-WATER	AZ-102	11/16/01	11/17/01	213,000	0
AP-102	AP-106	11/24/01	11/28/01	686,500	289
AN-104	AP-102	11/28/01	12/1/01	502,200	12,513
AN-104	AP-102	11/28/01	12/1/01	684,700	702
LERF	AN-104-PUMP	11/28/01	12/1/01	200,800	0
AP-104	AP-108	11/28/01	12/2/01	686,500	287
WATER	AN-105	12/1/01	12/1/01	1,000	0
WATER	SY-102	12/1/01	12/1/01	9,000	0
WATER	SY-102	12/1/01	12/1/01	12,000	0
WCE88	AN-105	12/1/01	12/1/01	3,000	0
WCW88	SY-102	12/1/01	12/1/01	46,000	0
WNNW88	SY-102	12/1/01	12/1/01	37,000	0
AN-104	AP-104	12/2/01	12/5/01	502,200	12,513
AN-104	AP-104	12/2/01	12/5/01	684,700	702
LERF	AN-104-PUMP	12/2/01	12/5/01	200,800	0
WATER	AN-105	1/1/02	1/1/02	1,000	0
WATER	SY-102	1/1/02	1/1/02	8,000	0
WATER	SY-102	1/1/02	1/1/02	10,000	0
WCE88	AN-105	1/1/02	1/1/02	3,000	0
WCW88	SY-102	1/1/02	1/1/02	39,000	0
WNNW88	SY-102	1/1/02	1/1/02	32,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AP-107	AN-104	1/1/02	1/4/02	748,200	586
WATER	AN-105	2/1/02	2/1/02	1,000	0
WATER	SY-102	2/1/02	2/1/02	4,000	0
WATER	SY-102	2/1/02	2/1/02	16,000	0
WCE88	AN-105	2/1/02	2/1/02	2,000	0
WCW88	SY-102	2/1/02	2/1/02	62,000	0
WNW88	SY-102	2/1/02	2/1/02	16,000	0
242-A	LERF	2/2/02	2/7/02	342,000	0
242-A	AW-106	2/2/02	2/7/02	611,600	35
AW-102	242-A	2/2/02	2/7/02	953,600	35
AW-106	AW-102	2/7/02	2/11/02	611,500	23
242-A	LERF	2/25/02	2/28/02	220,100	0
242-A	AW-106	2/25/02	2/28/02	391,300	23
AW-102	242-A	2/25/02	2/28/02	611,400	23
AW-106	AW-102	2/28/02	3/2/02	391,200	16
WATER	AN-105	3/1/02	3/1/02	1,000	0
WATER	SY-102	3/1/02	3/1/02	4,000	0
WATER	SY-102	3/1/02	3/1/02	16,000	0
WCE88	AN-105	3/1/02	3/1/02	2,000	0
WCW88	SY-102	3/1/02	3/1/02	62,000	0
WNW88	SY-102	3/1/02	3/1/02	14,000	0
242-A	LERF	3/16/02	3/18/02	140,200	0
242-A	AW-106	3/16/02	3/18/02	251,100	16
AW-102	242-A	3/16/02	3/18/02	391,300	16
AW-106	AW-102	3/18/02	3/19/02	251,100	11
WATER	AN-105	4/1/02	4/1/02	1,000	0
WATER	SY-102	4/1/02	4/1/02	3,000	0
WATER	SY-102	4/1/02	4/1/02	18,000	0
WCE88	AN-105	4/1/02	4/1/02	1,000	0
WCW88	SY-102	4/1/02	4/1/02	71,000	0
WNW88	SY-102	4/1/02	4/1/02	11,000	0
242-A	LERF	4/2/02	4/3/02	47,155	0
242-A	AW-106	4/2/02	4/3/02	204,000	11
AW-102	242-A	4/2/02	4/3/02	251,100	11
AN-105	AW-102	4/3/02	4/8/02	822,500	0
34L87	AN-105	4/8/02	4/8/02	33,200	0
AZ-102	AN-105	4/8/02	4/8/02	127,700	0
TAL88	AN-105	4/8/02	4/8/02	23,000	0
EVAPP	AN-105	4/8/02	4/9/02	110,100	0
WASH-WATER	AZ-102	4/9/02	4/11/02	213,000	0
WATER	SY-102	5/1/02	5/1/02	0	0
WATER	SY-102	5/1/02	5/1/02	1,000	0
WCW88	SY-102	5/1/02	5/1/02	17,300	0
WNW88	SY-102	5/1/02	5/1/02	6,000	0
AZ-101	PIHLW FEED TANK	5/17/02	5/17/02	134,300	5,079
AZ-102	AN-105	5/30/02	5/31/02	210,300	0
WASH-WATER	AZ-102	6/1/02	6/2/02	213,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079
AP-106	LAW-CONTRACTOR-1	6/1/02	12/9/05	3,623,000	5,414
AP-108	LAW-CONTRACTOR-2	6/1/02	2/6/06	3,759,000	5,424
AZ-102	AN-105	7/21/02	7/22/02	211,800	0
WASH-WATER	AZ-102	7/23/02	7/24/02	213,000	0
AW-106	AN-104	8/15/02	8/16/02	204,000	9
AZ-102	AN-105	9/11/02	9/13/02	212,500	0
WASH-WATER	AZ-102	9/14/02	9/14/02	110,000	0
34L87	AN-105	10/1/02	10/1/02	50,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPF	AN-105	10/1/02	10/1/02	58,851	0
TAL88	AN-105	10/1/02	10/1/02	24,000	0
TNS88	AN-105	10/1/02	10/1/02	750	250
WATER	AN-105	10/1/02	10/1/02	35,000	0
WESF	AN-105	10/1/02	10/1/02	5,000	0
EVAPF	AW-102	10/4/02	10/4/02	50,000	0
242-A	LERF	10/6/02	10/10/02	312,000	0
242-A	AW-106	10/6/02	10/10/02	560,600	34
AW-102	242-A	10/6/02	10/10/02	872,600	34
AW-106	AW-102	10/11/02	10/14/02	560,500	24
242-A	LERF	10/28/02	10/31/02	166,400	0
242-A	AW-106	10/28/02	10/31/02	394,000	24
AW-102	242-A	10/28/02	10/31/02	560,400	24
AN-105	AW-102	11/1/02	11/5/02	918,800	0
EVAPF	AW-102	11/3/02	11/3/02	35,000	0
EVAPF	AN-105	11/6/02	11/6/02	61,149	0
WATER	AN-105	11/6/02	11/6/02	5,000	0
WATER	AN-105	11/6/02	11/6/02	22,000	0
SY-102	AN-105	11/15/02	11/18/02	650,000	27
WATER	SY-102	11/19/02	11/19/02	1,000	0
WATER	SY-102	11/19/02	11/19/02	11,000	0
WATER	SY-102	11/19/02	11/19/02	11,000	0
WATER	SY-102	11/19/02	11/19/02	15,000	0
WATER	SY-102	11/19/02	11/19/02	16,000	0
WCW88	SY-102	11/19/02	11/19/02	58,000	0
WCW88	SY-102	11/19/02	11/19/02	65,000	0
WNV88	SY-102	11/19/02	11/19/02	2,000	0
WCW88	SY-102	11/19/02	11/20/02	45,000	0
SPN87	SY-102	11/20/02	11/20/02	25,000	0
WATER	SY-102	11/20/02	11/20/02	1,000	0
WATER	SY-102	11/20/02	11/20/02	5,000	0
WATER	SY-102	11/20/02	11/20/02	9,000	0
WATER	SY-102	11/20/02	11/20/02	9,000	0
WATER	SY-102	11/20/02	11/20/02	17,000	0
WCW88	SY-102	11/20/02	11/20/02	35,000	0
WCW88	SY-102	11/20/02	11/20/02	35,000	0
WCW88	SY-102	11/20/02	11/20/02	42,000	0
ZNL87	SY-102	11/20/02	11/20/02	3,000	0
WCW88	SY-102	11/20/02	11/21/02	49,700	0
WATER	SY-102	12/1/02	12/1/02	6,000	0
WCW88	SY-102	12/1/02	12/1/02	23,000	0
RETURN 1	AP-107	12/27/02	12/27/02	8,708	294
WATER	SY-102	1/1/03	1/1/03	5,000	0
WCW88	SY-102	1/1/03	1/1/03	18,000	0
AP-104	AP-108	1/5/03	1/9/03	684,700	686
AP-102	AP-106	1/9/03	1/12/03	684,700	686
AW-101	AP-104	1/10/03	1/14/03	537,200	13,013
AW-101	AP-104	1/10/03	1/14/03	845,400	13,013
LERF	AW-101-PUMP	1/10/03	1/14/03	308,100	0
AW-101	AP-102	1/15/03	1/19/03	537,200	13,013
AW-101	AP-102	1/15/03	1/19/03	845,400	13,013
LERF	AW-101-PUMP	1/15/03	1/19/03	308,100	0
RETURN 2	AP-107	1/29/03	1/29/03	8,671	331
WATER	SY-102	2/1/03	2/1/03	4,000	0
WCW88	SY-102	2/1/03	2/1/03	16,000	0
AW-106	AW-101	2/18/03	2/20/03	393,900	18

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AZ-101	PIHLW FEED TANK	2/21/03	2/21/03	134,300	5,079
PIHLW FEED TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079
AY-102	AZ-101	2/26/03	3/3/03	819,600	16,032
WATER	SY-102	3/1/03	3/1/03	4,000	0
WCW88	SY-102	3/1/03	3/1/03	15,000	0
WATER	SY-102	4/1/03	4/1/03	2,000	0
WCW88	SY-102	4/1/03	4/1/03	6,000	0
242-A	LERF	4/4/03	4/9/03	342,000	0
242-A	AW-106	4/4/03	4/9/03	612,000	33
AW-102	242-A	4/4/03	4/9/03	954,000	33
AW-106	AW-102	4/9/03	4/13/03	611,900	22
242-A	LERF	4/27/03	4/30/03	222,000	0
242-A	AW-106	4/27/03	4/30/03	389,800	22
AW-102	242-A	4/27/03	4/30/03	611,800	22
AW-106	AW-102	4/30/03	5/2/03	389,700	14
WATER	SY-102	5/1/03	5/1/03	1,000	0
WCW88	SY-102	5/1/03	5/1/03	3,000	0
242-A	LERF	5/16/03	5/18/03	140,700	0
242-A	AW-106	5/16/03	5/18/03	249,100	14
AW-102	242-A	5/16/03	5/18/03	389,800	14
AW-106	AW-102	5/18/03	5/19/03	249,100	9
WATER	SY-102	6/1/03	6/1/03	1,000	0
WCW88	SY-102	6/1/03	6/1/03	3,000	0
242-A	LERF	6/2/03	6/3/03	90,000	0
242-A	AW-106	6/2/03	6/3/03	159,100	9
AW-102	242-A	6/2/03	6/3/03	249,100	9
AW-106	AW-102	6/3/03	6/4/03	159,100	6
AW-102	AW-106	6/5/03	6/6/03	159,200	6
AN-105	AW-102	6/7/03	6/11/03	918,400	0
242-A	LERF	6/27/03	7/1/03	330,000	0
242-A	AW-106	6/27/03	7/1/03	588,300	36
AW-102	242-A	6/27/03	7/1/03	918,300	36
WATER	SY-102	7/1/03	7/1/03	1,000	0
WCW88	SY-102	7/1/03	7/1/03	3,000	0
AW-106	AW-102	7/2/03	7/5/03	747,400	31
242-A	LERF	7/19/03	7/23/03	267,000	0
242-A	AW-106	7/19/03	7/23/03	480,300	31
AW-102	242-A	7/19/03	7/23/03	747,300	31
AW-106	AW-101	7/23/03	7/26/03	480,300	22
RETURN 1	AP-107	8/19/03	8/19/03	8,673	330
RETURN 2	AP-107	9/28/03	9/28/03	8,670	332
AP-104	AP-108	9/29/03	10/3/03	740,300	1,581
34L87	AN-105	10/1/03	10/1/03	7,000	0
34L87	AN-105	10/1/03	10/1/03	50,000	0
EVAPF	AN-105	10/1/03	10/1/03	120,000	0
SPN87	SY-102	10/1/03	10/1/03	25,000	0
TAL88	AN-105	10/1/03	10/1/03	24,000	0
TNS88	AN-105	10/1/03	10/1/03	750	250
WATER	AN-105	10/1/03	10/1/03	35,000	0
WESF	AN-105	10/1/03	10/1/03	5,000	0
ZNL87	SY-102	10/1/03	10/1/03	3,000	0
WATER	AN-105	10/2/03	10/2/03	3,000	0
WATER	SY-102	10/2/03	10/2/03	5,000	0
WATER	AN-105	10/2/03	10/2/03	5,000	0
WATER	AN-105	10/2/03	10/2/03	22,000	0
AP-102	AP-106	10/3/03	10/6/03	740,300	1,581

HNF-2321
Revision 0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AN-103	AP-104	10/4/03	10/7/03	436,600	28,133
AN-103	AP-104	10/4/03	10/7/03	738,300	549
LERF	AN-103-PUMP	10/4/03	10/7/03	264,900	0
AN-103	AP-102	10/8/03	10/11/03	436,600	28,133
AN-103	AP-102	10/8/03	10/11/03	738,300	549
LERF	AN-103-PUMP	10/8/03	10/11/03	264,900	0
AZ-101	AN-105	10/28/03	10/31/03	622,700	0
WASH-WATER	AZ-101	10/31/03	11/2/03	324,000	0
AN-105	AW-102	10/31/03	11/4/03	891,500	0
EVAPF	AW-102	11/3/03	11/3/03	35,000	0
AZ-102	PIHLW FEED TANK	11/14/03	11/14/03	123,900	5,202
PIHLW FEED TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202
AZ-101	AN-105	12/21/03	12/22/03	320,000	0
WASH-WATER	AZ-101	12/24/03	12/25/03	324,000	0
AX-103	AN-103	1/10/04	5/28/04	310,200	2,846
RETURN 1	AP-107	1/22/04	1/22/04	8,672	330
AZ-101	AN-105	2/12/04	2/14/04	322,300	0
RETURN 2	AP-107	2/13/04	2/13/04	8,673	330
WASH-WATER	AZ-101	2/15/04	2/17/04	433,600	0
AP-104	AP-108	5/3/04	5/7/04	753,200	1,687
242-A	LERF	5/4/04	5/8/04	332,500	0
242-A	AW-106	5/4/04	5/8/04	594,300	32
AW-102	242-A	5/4/04	5/8/04	926,800	32
AP-102	AP-106	5/7/04	5/11/04	753,200	1,687
AW-106	AW-102	5/9/04	5/12/04	594,100	21
WASH-WATER	AP-102	5/12/04	5/12/04	118,100	0
WASH-WATER	AP-104	5/13/04	5/13/04	118,100	0
RETURN 1	AP-107	5/18/04	5/18/04	8,676	330
RETURN 2	AP-107	5/24/04	5/24/04	8,670	330
242-A	LERF	5/26/04	5/29/04	214,900	0
242-A	AW-106	5/26/04	5/29/04	379,200	21
AW-102	242-A	5/26/04	5/29/04	594,100	21
AP-102	AN-105	5/28/04	5/29/04	209,500	9,168
C-103	AN-103	5/28/04	8/11/04	271,800	10,423
AW-106	AW-102	5/29/04	5/31/04	379,100	14
AP-104	AN-105	5/30/04	5/31/04	209,500	9,168
WASH-CAUSTIC	AP-102	5/31/04	5/31/04	103,400	0
WASH-CAUSTIC	AP-104	6/1/04	6/1/04	126,400	0
AP-101	AP-102	6/2/04	6/4/04	470,100	21
AP-101	AP-102	6/2/04	6/4/04	521,800	21
LERF	AP-101-PUMP	6/2/04	6/4/04	51,711	0
AP-101	AP-104	6/5/04	6/8/04	574,500	26
AP-101	AP-104	6/5/04	6/8/04	637,700	26
LERF	AP-101-PUMP	6/5/04	6/8/04	63,203	0
AW-104	AP-102	6/8/04	6/8/04	107,400	4
AW-104	AP-104	6/9/04	6/9/04	131,200	5
242-A	LERF	6/14/04	6/16/04	138,000	0
242-A	AW-106	6/14/04	6/16/04	241,200	14
AW-102	242-A	6/14/04	6/16/04	379,200	14
AW-106	AW-102	6/16/04	6/17/04	241,100	9
242-A	LERF	7/1/04	7/2/04	87,436	0
242-A	AW-106	7/1/04	7/2/04	153,800	9
AW-102	242-A	7/1/04	7/2/04	241,200	9
AW-106	AW-102	7/2/04	7/3/04	153,700	6
AW-102	AW-106	7/4/04	7/5/04	153,900	6
AN-105	AW-102	7/6/04	7/10/04	856,100	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid		Solid
				(gallons)	(gallons)	
RETURN 1	AP-107	7/1/04	7/1/04	8,671	8,671	331
RETURN 2	AP-107	7/14/04	7/14/04	8,671	8,671	331
AW-101	AP-101	7/15/04	7/18/04	750,000	750,000	35
C-104	AX-102	8/1/04	9/8/04	279,100	279,100	9,724
AZ-102	PHLW FEED TANK	8/7/04	8/8/04	123,900	123,900	5,202
PHLW FEED TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	123,900	5,202
A-102	AN-103	8/11/04	11/30/04	100,600	100,600	744
AW-105	AN-105	8/15/04	8/17/04	500,000	500,000	17
RETURN 1	AP-107	8/26/04	8/27/04	8,678	8,678	331
RETURN 2	AP-107	9/2/04	9/2/04	8,671	8,671	331
34L87	AN-105	10/1/04	10/1/04	50,000	50,000	0
EVAPF	AN-105	10/1/04	10/1/04	120,000	120,000	0
SPN87	SY-102	10/1/04	10/1/04	2,000	2,000	0
SPN87	SY-102	10/1/04	10/1/04	23,000	23,000	0
TAL88	AN-105	10/1/04	10/1/04	2,000	2,000	0
TAL88	AN-105	10/1/04	10/1/04	22,000	22,000	0
TNS88	AN-105	10/1/04	10/1/04	750	750	250
WATER	AN-105	10/1/04	10/1/04	35,000	35,000	0
WESP	AN-105	10/1/04	10/1/04	5,000	5,000	0
ZNL87	SY-102	10/1/04	10/1/04	3,000	3,000	0
1FL96	AW-105	10/1/04	10/2/04	200,000	200,000	0
WATER	SY-102	10/2/04	10/2/04	1,000	1,000	0
WATER	AN-105	10/2/04	10/2/04	1,000	1,000	0
WATER	AN-105	10/2/04	10/2/04	22,000	22,000	0
WATER	AW-105	10/2/04	10/2/04	88,000	88,000	0
WATER	SY-102	10/2/04	10/3/04	5,000	5,000	0
WATER	AN-105	10/3/04	10/3/04	4,000	4,000	0
EVAPF	AW-102	10/4/04	10/4/04	50,000	50,000	0
RETURN 1	AP-107	10/16/04	10/16/04	8,678	8,678	331
RETURN 2	AP-107	10/23/04	10/23/04	8,671	8,671	331
EVAPF	AW-102	11/3/04	11/3/04	35,000	35,000	0
C-105	AN-103	11/30/04	5/30/06	827,500	827,500	31,875
242-A	LERF	12/2/04	12/7/04	336,200	336,200	0
242-A	AW-106	12/7/04	12/7/04	604,800	604,800	34
242-A	AW-106	12/7/04	12/7/04	941,000	941,000	34
AW-102	242-A	12/5/04	12/5/04	8,678	8,678	331
RETURN 1	AP-107	12/5/04	12/5/04	8,678	8,678	331
AW-106	AW-102	12/7/04	12/7/04	758,600	758,600	29
RETURN 2	AP-107	12/12/04	12/12/04	8,671	8,671	331
242-A	LERF	12/25/04	12/29/04	271,500	271,500	0
242-A	AW-106	12/25/04	12/29/04	486,900	486,900	29
AW-102	242-A	12/25/04	12/29/04	758,400	758,400	29
AW-102	AW-102	12/29/04	12/29/04	486,800	486,800	20
242-A	LERF	1/1/05	1/1/05	174,000	174,000	0
242-A	AW-106	1/1/05	1/1/05	312,900	312,900	20
AW-102	242-A	1/1/05	1/1/05	486,900	486,900	20
AW-106	AW-102	1/17/05	1/17/05	312,900	312,900	14
AW-102	AW-102	1/17/05	1/17/05	159,500	159,500	4,243
AN-103	AN-103	1/20/05	1/20/05	3,896	3,896	104
AN-103	AN-103	1/20/05	1/20/05	3,897	3,897	104
AN-103	AP-105	1/20/05	1/20/05	42,667	42,667	1,133
AN-103	AP-103	1/20/05	1/20/05	116,400	116,400	3,090
AN-103	AN-101	1/20/05	1/20/05	357,000	357,000	9,471
AN-103	AN-103	1/23/05	1/23/05	276,200	276,200	7,319
RETURN 1	AP-107	1/24/05	1/24/05	8,678	8,678	331
RETURN 2	AP-107	1/31/05	1/31/05	8,671	8,671	331
242-A	LERF	2/3/05	2/3/05	49,039	49,039	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	2/1/05	2/3/05	263,900	14
AW-102	242-A	2/1/05	2/3/05	313,000	14
AW-106	AW-101	2/3/05	2/4/05	263,900	12
AN-105	AW-102	2/3/05	2/7/05	758,600	0
AP-104	AP-108	2/18/05	2/22/05	894,300	1,149
AP-102	AP-106	2/22/05	2/26/05	731,500	1,136
AY-101	AP-104	2/23/05	2/24/05	283,600	12
AY-101	AP-102	2/27/05	2/28/05	279,700	11
SY-102	AN-105	3/1/05	3/4/05	750,000	31
RETURN 1	AP-107	3/18/05	3/18/05	8,679	331
RETURN 2	AP-107	3/27/05	3/27/05	8,682	331
242-A	LERF	4/6/05	4/10/05	272,600	0
242-A	AW-106	4/6/05	4/10/05	486,100	26
AW-102	242-A	4/6/05	4/10/05	758,700	26
AW-106	AW-102	4/10/05	4/12/05	486,000	17
242-A	LERF	4/26/05	4/29/05	174,000	0
242-A	AW-106	4/26/05	4/29/05	312,000	17
AW-102	242-A	4/26/05	4/29/05	486,000	17
AW-106	AW-102	4/29/05	4/30/05	311,400	11
AZ-101	PIHLW FEED TANK	5/2/05	5/2/05	127,200	3,269
PIHLW FEED TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269
RETURN 1	AP-107	5/14/05	5/14/05	8,675	330
242-A	LERF	5/14/05	5/16/05	114,000	0
242-A	AW-106	5/14/05	5/16/05	197,500	11
AW-102	242-A	5/14/05	5/16/05	311,500	11
AW-106	AW-102	5/16/05	5/17/05	197,400	7
AW-102	AW-106	5/18/05	5/19/05	197,600	7
AN-105	AW-102	5/19/05	5/23/05	749,700	0
RETURN 2	AP-107	5/23/05	5/23/05	8,677	330
AN-103	AW-104	6/1/05	6/1/05	0	0
RETURN 1	AP-107	7/9/05	7/10/05	8,675	330
RETURN 2	AP-107	7/19/05	7/19/05	8,677	330
AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360
RETURN 1	AP-107	9/4/05	9/4/05	8,675	330
242-A	LERF	9/5/05	9/8/05	268,200	0
242-A	AW-106	9/5/05	9/8/05	481,500	31
AW-102	242-A	9/5/05	9/8/05	749,600	31
AW-106	AW-102	9/9/05	9/12/05	678,900	29
RETURN 2	AP-107	9/14/05	9/14/05	8,677	330
242-A	LERF	9/26/05	9/30/05	190,200	0
242-A	AW-106	9/26/05	9/30/05	488,600	29
AW-102	242-A	9/26/05	9/30/05	678,800	29
AW-106	AW-101	9/30/05	10/2/05	488,600	23
34L87	AN-105	10/1/05	10/1/05	50,000	0
EVAPP	AN-105	10/1/05	10/1/05	120,000	0
SPN87	SY-102	10/1/05	10/1/05	25,000	0
TAL88	AN-105	10/1/05	10/1/05	24,000	0
TNS88	AN-105	10/1/05	10/1/05	750	250
WATER	AN-105	10/1/05	10/1/05	35,000	0
WESF	AN-105	10/1/05	10/1/05	5,000	0
ZNL87	SY-102	10/1/05	10/1/05	3,000	0
WATER	SY-102	10/2/05	10/2/05	1,000	0
WATER	SY-102	10/2/05	10/2/05	5,000	0
WATER	AN-105	10/2/05	10/2/05	5,000	0
WATER	AN-105	10/2/05	10/2/05	22,000	0
RETURN 1	AP-107	10/31/05	10/31/05	8,675	330

HNF-2321
Revision 0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPF	AW-102	11/3/05	11/3/05	35,000	0
RETURN 2	AP-107	11/10/05	11/10/05	8,677	330
AZ-101	PIHLW FEED TANK	11/16/05	11/17/05	127,200	3,269
PIHLW FEED TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269
AP-102	AP-106	12/9/05	12/11/05	279,600	49
AP-106	LAW-CONTRACTOR-1	12/11/05	2/16/06	279,600	85
AN-107	AP-102	12/12/05	12/14/05	481,700	22
AN-107	AP-102	12/12/05	12/14/05	554,000	22
LERF	AN-107-PUMP	12/12/05	12/14/05	72,259	0
AW-105	AN-105	12/15/05	12/17/05	415,300	14
WATER	SY-102	12/15/05	12/17/05	426,000	0
SY-102	AW-105	1/1/06	1/3/06	731,500	20,807
RETURN 2	AP-107	1/6/06	1/6/06	8,677	330
AP-104	AP-108	2/6/06	2/7/06	283,600	43
AN-107	AP-104	2/8/06	2/10/06	481,700	22
AN-107	AP-104	2/8/06	2/10/06	554,000	22
LERF	AN-107-PUMP	2/8/06	2/10/06	72,260	0
AP-108	LAW-CONTRACTOR-2	2/8/06	4/16/06	283,500	73
AP-102	AP-106	2/16/06	2/17/06	169,400	8
AP-106	LAW-CONTRACTOR-1	2/17/06	5/25/09	3,713,000	157
AW-105	AN-105	3/1/06	3/9/06	502,600	18
AN-105	AW-102	3/3/06	3/7/06	865,100	0
AP-102	AP-106	3/16/06	3/18/06	384,600	18
AN-102	AP-102	3/19/06	3/22/06	481,700	23
AN-102	AP-102	3/19/06	3/22/06	770,700	23
LERF	AN-102-PUMP	3/19/06	3/22/06	289,000	0
AN-103	AW-105	4/1/06	4/1/06	161,100	4,246
RETURN 1	AP-107	4/11/06	4/11/06	8,676	325
AW-101	AW-105	4/15/06	4/16/06	200,000	9
AP-104	AP-108	4/16/06	4/17/06	169,400	8
AP-108	LAW-CONTRACTOR-2	4/17/06	5/18/09	3,448,000	144
AP-104	AP-108	5/14/06	5/16/06	384,600	17
AN-102	AP-104	5/17/06	5/20/06	481,700	23
AN-102	AP-104	5/17/06	5/20/06	770,700	23
LERF	AN-102-PUMP	5/17/06	5/20/06	289,000	0
A-104	AN-103	5/30/06	9/7/06	29,827	832
AZ-101	PIHLW FEED TANK	6/2/06	6/3/06	127,200	3,269
PIHLW FEED TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269
242-A	LERF	6/20/06	6/25/06	324,000	0
242-A	AW-106	6/20/06	6/25/06	576,300	31
AW-102	242-A	6/20/06	6/25/06	900,300	31
AZ-102	AN-105	6/23/06	6/24/06	159,500	0
WASH-WATER	AZ-102	6/24/06	6/26/06	324,000	0
AW-106	AW-102	6/25/06	6/28/06	576,200	21
242-A	LERF	7/12/06	7/15/06	208,100	0
242-A	AW-106	7/12/06	7/15/06	368,100	21
AW-102	242-A	7/12/06	7/15/06	576,200	21
AW-106	AW-102	7/15/06	7/17/06	368,000	14
AP-102	AP-106	7/29/06	8/2/06	770,700	23
242-A	LERF	7/31/06	8/2/06	132,000	0
242-A	AW-106	7/31/06	8/2/06	236,100	14
AW-102	242-A	7/31/06	8/2/06	368,100	14
AW-106	AW-102	8/2/06	8/3/06	236,000	9
AN-106	AP-102	8/2/06	8/5/06	527,300	24
AN-106	AP-102	8/2/06	8/5/06	622,200	24
LERF	AN-106-PUMP	8/2/06	8/5/06	94,920	0

HNF-2321
Revision 0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AZ-102	AN-105	8/14/06	8/15/06	320,100	0
242-A	LERF	8/17/06	8/18/06	84,555	0
242-A	AW-106	8/17/06	8/18/06	151,500	9
AW-102	242-A	8/17/06	8/18/06	236,100	9
WASH-WATER	AZ-102	8/17/06	8/18/06	324,000	0
AW-106	AW-102	8/18/06	8/19/06	151,500	6
AW-102	AW-106	8/20/06	8/21/06	151,600	6
AN-105	AW-102	8/21/06	8/25/06	790,900	0
C-204	AN-103	9/7/06	9/14/06	3,775	55
C-201	AN-103	9/14/06	9/20/06	2,464	59
AX-104	AN-103	9/20/06	10/26/06	18,516	572
AP-104	AP-108	9/26/06	9/30/06	770,700	23
34L87	AN-105	10/1/06	10/1/06	7,000	0
34L87	AN-105	10/1/06	10/1/06	50,000	0
EVAPF	AN-105	10/1/06	10/1/06	120,000	0
SPN87	SY-102	10/1/06	10/1/06	25,000	0
TAL88	AN-105	10/1/06	10/1/06	25,000	0
TNS88	AN-105	10/1/06	10/1/06	750	250
WATER	AN-105	10/1/06	10/1/06	35,000	0
WESF	AN-105	10/1/06	10/1/06	5,000	0
AN-106	AP-104	10/1/06	10/4/06	527,300	24
AN-106	AP-104	10/1/06	10/4/06	622,200	24
LERF	AN-106-PUMP	10/1/06	10/4/06	94,920	0
WATER	AN-105	10/2/06	10/2/06	3,000	0
WATER	SY-102	10/2/06	10/2/06	5,000	0
WATER	AN-105	10/2/06	10/2/06	5,000	0
WATER	AN-105	10/2/06	10/2/06	22,000	0
LERF	SY-101-PUMP	10/2/06	10/7/06	532,400	0
SY-101	SY-102	10/2/06	10/7/06	537,800	5,486
SY-101	SY-102	10/2/06	10/7/06	1,082,000	611
EVAPF	AW-102	10/4/06	10/4/06	50,000	0
AZ-102	AN-105	10/6/06	10/8/06	322,700	0
WASH-WATER	AZ-102	10/9/06	10/10/06	150,500	0
SY-102	AN-102	10/10/06	10/13/06	1,026,000	2,529
LERF	SY-101-PUMP	10/21/06	10/26/06	532,400	0
SY-101	SY-102	10/21/06	10/26/06	537,800	5,486
SY-101	SY-102	10/21/06	10/26/06	1,082,000	611
AX-102	AN-103	10/26/06	2/13/07	87,597	897
EVAPF	AW-102	11/3/06	11/3/06	35,000	0
SY-102	AN-107	11/3/06	11/6/06	983,700	807
SY-101	SY-102	11/14/06	11/14/06	0	0
AZ-101	PIHLW FEED TANK	12/18/06	12/18/06	127,200	3,269
PIHLW FEED TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269
S-103	SY-101	2/13/07	8/7/07	712,300	1,011
AX-101	AN-103	2/13/07	10/8/09	2,149,000	6,072
242-A	LERF	2/23/07	2/27/07	314,000	0
242-A	AW-106	2/23/07	2/27/07	561,900	31
AW-102	242-A	2/23/07	2/27/07	875,900	31
AW-106	AW-102	2/28/07	3/3/07	713,400	27
242-A	LERF	3/17/07	3/21/07	257,500	0
242-A	AW-106	3/17/07	3/21/07	455,800	27
AW-102	242-A	3/17/07	3/21/07	713,300	27
AW-106	AW-102	3/21/07	3/23/07	455,700	18
AP-102	AP-106	3/26/07	3/29/07	622,200	24
AN-102	AP-102	3/30/07	4/4/07	1,003,000	44
242-A	LERF	4/6/07	4/9/07	163,300	0

HNF-2321
Revision 0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	4/6/07	4/9/07	292,500	18
AW-102	242-A	4/6/07	4/9/07	455,800	18
LERF	SY-103-PUMP	4/7/07	4/9/07	183,500	0
SY-103	SY-102	4/7/07	4/9/07	350,000	9,759
SY-103	SY-102	4/7/07	4/9/07	537,500	1,449
AW-106	AW-102	4/9/07	4/10/07	292,500	12
SY-102	AN-102	4/17/07	4/19/07	777,500	1,612
242-A	LERF	4/24/07	4/26/07	104,500	0
242-A	AW-106	4/24/07	4/26/07	188,000	12
AW-102	242-A	4/24/07	4/26/07	292,600	12
AW-106	AW-101	4/26/07	4/27/07	188,000	9
AN-103	AW-105	5/21/07	5/22/07	134,700	2,581
AN-103	AN-106	5/22/07	5/27/07	965,600	18,496
AP-104	AP-108	5/24/07	5/27/07	622,200	24
AN-107	AP-104	5/28/07	6/1/07	976,700	43
LERF	SY-103-PUMP	6/5/07	6/7/07	183,500	0
SY-103	SY-102	6/5/07	6/7/07	350,000	9,759
SY-103	SY-102	6/5/07	6/7/07	537,500	1,449
SY-102	AN-107	6/15/07	6/16/07	537,500	1,433
AZ-101	PIHLW FEED TANK	7/4/07	7/5/07	127,200	3,269
PIHLW FEED TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269
RETURN 2	AP-107	7/6/07	7/6/07	8,670	330
S-105	SY-101	8/7/07	7/1/11	1,518,000	2,459
SX-113	SY-103	9/6/07	12/12/07	10,322	399
34L87	AN-105	10/1/07	10/1/07	50,000	0
EVAPF	AN-105	10/1/07	10/1/07	120,000	0
SPN87	SY-102	10/1/07	10/1/07	25,000	0
TAL88	AN-105	10/1/07	10/1/07	25,000	0
TNS88	AN-105	10/1/07	10/1/07	750	250
WATER	AN-105	10/1/07	10/1/07	35,000	0
WESF	AN-105	10/1/07	10/1/07	5,000	0
AN-105	AW-102	10/1/07	10/5/07	855,300	284
WATER	SY-102	10/2/07	10/2/07	5,000	0
WATER	AN-105	10/2/07	10/2/07	5,000	0
WATER	AN-105	10/2/07	10/2/07	22,000	0
AP-102	AP-106	10/30/07	11/4/07	1,003,000	44
EVAPF	AW-102	11/3/07	11/3/07	35,000	0
AN-102	AP-102	11/5/07	11/8/07	763,200	34
SX-112	SY-103	12/12/07	4/22/08	397,100	16,406
AP-104	AP-108	12/29/07	1/3/08	976,700	43
AN-107	AP-104	1/4/08	1/6/08	524,700	23
AN-103	AN-106	1/10/08	1/11/08	115,100	366
AZ-102	PIHLW FEED TANK	1/18/08	1/19/08	137,700	4,774
PIHLW FEED TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774
SY-101	AN-102	2/6/08	2/10/08	985,600	1,658
242-A	LERF	4/3/08	4/8/08	318,000	0
242-A	AW-106	4/3/08	4/8/08	569,100	30
AW-102	242-A	4/3/08	4/8/08	887,100	30
AN-103	AN-107	4/5/08	4/10/08	959,500	3,054
AW-106	AW-102	4/8/08	4/11/08	569,000	20
SX-110	SY-103	4/22/08	8/25/08	212,700	8,909
242-A	LERF	4/25/08	4/28/08	204,000	0
242-A	AW-106	4/25/08	4/28/08	365,100	20
AW-102	242-A	4/25/08	4/28/08	569,100	20
AW-106	AW-102	4/28/08	4/30/08	365,100	13
242-A	LERF	5/14/08	5/16/08	132,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	5/14/08	5/16/08	233,100	13
AW-102	242-A	5/14/08	5/16/08	365,100	13
AW-106	AW-102	5/16/08	5/17/08	233,100	9
242-A	LERF	5/31/08	6/1/08	84,000	0
242-A	AW-106	5/31/08	6/1/08	149,200	9
AW-102	242-A	5/31/08	6/1/08	233,200	9
AW-106	AW-102	6/1/08	6/2/08	149,100	6
AW-102	AN-105	6/3/08	6/4/08	149,200	6
SX-115	SY-103	8/25/08	10/26/08	42,100	1,556
AP-102	AP-106	8/27/08	8/30/08	763,200	34
34L87	AN-105	10/1/08	10/1/08	50,000	0
EVAPF	AN-105	10/1/08	10/1/08	120,000	0
SPN87	SY-102	10/1/08	10/1/08	25,000	0
TAL88	AN-105	10/1/08	10/1/08	25,000	0
TNS88	AN-105	10/1/08	10/1/08	750	250
WATER	AN-105	10/1/08	10/1/08	35,000	0
WESF	AN-105	10/1/08	10/1/08	5,000	0
WATER	SY-102	10/2/08	10/2/08	5,000	0
WATER	AN-105	10/2/08	10/2/08	5,000	0
WATER	AN-105	10/2/08	10/2/08	22,000	0
EVAPF	AW-102	10/4/08	10/4/08	50,000	0
SX-111	SY-103	10/26/08	8/20/11	451,500	19,767
AP-104	AP-108	11/1/08	11/3/08	524,700	23
EVAPF	AW-102	11/3/08	11/3/08	35,000	0
AZ-102	PIHLW FEED TANK	12/22/08	12/22/08	137,700	4,774
PIHLW FEED TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774
U-202	UA-2	1/3/09	1/10/09	27,411	1,061
U-203	UA-2	1/10/09	1/16/09	13,895	537
U-110	UA-2	1/16/09	3/10/09	99,290	4,252
U-110	UA-1	3/10/09	5/27/09	143,800	6,160
UA-2	SY-102	3/11/09	3/12/09	173,900	5,847
RETURN 2	AP-107	5/19/09	5/19/09	2,052	78
RETURN 1	AP-107	5/26/09	5/26/09	5,806	157
U-110	UA-2	5/27/09	5/30/09	4,829	207
UA-1	SY-102	5/28/09	5/29/09	186,800	6,157
U-101	UA-2	5/30/09	7/30/09	27,955	668
AP-107	AZ-101	6/5/09	6/6/09	277,700	9,450
AN-103	AP-107	6/15/09	6/15/09	49,018	155
AN-102	AP-107	6/15/09	6/20/09	1,058,000	9,409
U-104	UA-2	7/30/09	11/9/09	50,908	1,221
34L87	AN-105	10/1/09	10/1/09	7,000	0
34L87	AN-105	10/1/09	10/1/09	50,000	0
EVAPF	AN-105	10/1/09	10/1/09	120,000	0
SPN87	SY-102	10/1/09	10/1/09	25,000	0
TAL88	AN-105	10/1/09	10/1/09	26,000	0
TNS88	AN-105	10/1/09	10/1/09	750	250
WATER	AN-105	10/1/09	10/1/09	35,000	0
WESF	AN-105	10/1/09	10/1/09	5,000	0
WATER	AN-105	10/2/09	10/2/09	3,000	0
WATER	SY-102	10/2/09	10/2/09	5,000	0
WATER	AN-105	10/2/09	10/2/09	5,000	0
WATER	AN-105	10/2/09	10/2/09	22,000	0
C-202	AN-103	10/8/09	10/13/09	1,181	28
A-105	AN-103	10/13/09	1/5/10	50,372	1,545
EVAPF	AW-102	11/3/09	11/3/09	35,000	0
U-112	UA-2	11/9/09	12/5/09	58,521	2,330

HNF-2321
Revision 0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
UA-2	SY-102	12/5/09	12/6/09	154,400	4,426
U-112	UA-1	12/5/09	1/17/10	102,000	4,061
C-203	AN-103	1/5/10	1/12/10	6,307	150
C-108	AN-103	1/12/10	3/30/10	83,934	3,840
U-204	UA-1	1/17/10	1/23/10	13,004	503
U-201	UA-1	1/23/10	1/27/10	13,912	538
U-201	UA-2	1/27/10	1/30/10	13,499	522
UA-1	SY-102	1/28/10	1/28/10	146,500	5,102
U-106	UA-2	1/30/10	3/1/10	134,400	338
U-106	UA-1	3/1/10	4/4/10	149,500	376
UA-2	SY-102	3/2/10	3/3/10	151,500	862
C-111	AN-103	3/30/10	6/11/10	176,500	7,080
U-106	UA-2	4/4/10	5/7/10	149,500	376
UA-1	SY-102	4/4/10	6/25/11	152,200	379
A-106	AN-103	6/11/10	8/8/11	253,300	5,796
34L87	AN-105	10/1/10	10/1/10	50,000	0
EVAPF	AN-105	10/1/10	10/1/10	50,260	0
SPN87	SY-102	10/1/10	10/1/10	25,000	0
TAL88	AN-105	10/1/10	10/1/10	26,000	0
TNS88	AN-105	10/1/10	10/1/10	750	250
WATER	AN-105	10/1/10	10/1/10	25,000	0
WATER	AN-105	10/1/10	10/1/10	35,000	0
WESF	AN-105	10/1/10	10/1/10	5,000	0
AN-105	AW-102	10/1/10	10/5/10	797,200	245
WATER	SY-102	10/2/10	10/2/10	5,000	0
WATER	AN-105	10/2/10	10/2/10	5,000	0
WATER	AN-105	10/2/10	10/2/10	22,000	0
EVAPF	AW-102	10/4/10	10/4/10	50,000	0
EVAPF	AN-105	10/5/10	10/5/10	69,740	0
EVAPF	AW-102	11/3/10	11/3/10	35,000	0
WATER	AN-105	1/1/11	1/1/11	25,000	0
BY-110	BA-3	1/3/11	2/8/11	147,400	2,633
TX-109	TA-5	1/3/11	2/10/11	144,100	5,925
TY-101	TA-4	1/3/11	2/22/11	146,500	3,494
T-106	TA-6	1/3/11	3/2/11	74,648	2,929
B-112	BA-1	1/3/11	3/9/11	75,213	1,083
BX-102	BA-2	1/3/11	4/4/11	52,548	2,443
BY-110	BA-4	2/8/11	3/16/11	147,400	2,633
TX-109	TA-3	2/10/11	3/19/11	144,100	5,925
TY-101	TA-2	2/22/11	4/13/11	146,500	3,494
T-101	TA-6	3/2/11	3/25/11	61,377	2,346
B-111	BA-1	3/9/11	4/9/11	72,630	2,383
BY-110	BA-5	3/16/11	4/21/11	147,400	2,633
TX-109	TA-1	3/19/11	4/26/11	144,100	5,925
WATER	AN-105	4/1/11	4/1/11	25,000	0
242-A	LERF	4/4/11	4/9/11	360,000	0
242-A	AW-106	4/4/11	4/9/11	639,300	34
AW-102	242-A	4/4/11	4/9/11	999,300	34
BX-112	BA-2	4/4/11	5/2/11	67,370	2,937
B-111	BA-6	4/9/11	6/11/11	145,200	4,764
AW-106	AW-102	4/10/11	4/13/11	639,200	22
242-A	LERF	4/27/11	5/1/11	228,800	0
242-A	AW-106	4/27/11	5/1/11	410,500	22
AW-102	242-A	4/27/11	5/1/11	639,300	22
AW-106	AW-102	5/1/11	5/3/11	410,400	15
242-A	LERF	5/17/11	5/19/11	150,000	0

Table A.3-1. Complete Transfer List for Case 3.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	5/17/11	5/19/11	260,500	15
AW-102	242-A	5/17/11	5/19/11	410,500	15
AW-106	AW-102	5/19/11	5/20/11	260,400	10
AN-102	AP-102	6/1/11	6/1/11	49,734	439
BA-1	AP-108	6/1/11	6/2/11	157,300	3,464
BA-3	AP-104	6/1/11	6/2/11	155,600	2,631
BA-4	AP-102	6/1/11	6/2/11	155,600	2,631
SY-101	AN-102	6/1/11	6/5/11	1,115,000	1,796
AN-103	AP-106	6/1/11	6/6/11	1,099,000	17,130
BA-5	AP-104	6/2/11	6/2/11	155,600	2,631
BA-2	AP-102	6/2/11	6/3/11	174,500	5,377
BY-110	BA-4	6/2/11	7/8/11	147,300	2,631
BX-112	BA-3	6/2/11	8/2/11	143,600	6,262
242-A	LERF	6/3/11	6/5/11	96,000	0
242-A	AW-106	6/3/11	6/5/11	164,500	10
AW-102	242-A	6/3/11	6/5/11	260,500	10
AW-106	AW-102	6/5/11	6/6/11	164,500	6
AN-102	AP-102	6/5/11	6/9/11	727,000	1,296
AN-103	AP-104	6/6/11	6/6/11	4,514	69
AW-102	AN-105	6/7/11	6/8/11	164,600	6
AN-102	AP-104	6/9/11	6/11/11	388,500	692
BA-6	AP-104	6/11/11	6/12/11	159,400	4,762
SY-103	AN-102	6/11/11	6/15/11	1,081,000	35,223
B-111	BA-1	6/11/11	8/12/11	145,100	4,761
AN-102	AP-104	6/16/11	6/17/11	234,600	7,461
AN-102	AP-108	6/17/11	6/21/11	848,400	26,963
SY-102	AN-102	6/21/11	6/25/11	1,024,000	22,112
AN-102	AP-108	6/25/11	6/25/11	78,587	1,716
UA-2	SY-102	6/25/11	6/26/11	152,200	376
U-106	UA-1	6/25/11	7/29/11	149,500	376
TA-5	SY-102	6/26/11	6/27/11	180,300	5,922
TA-4	SY-102	6/27/11	6/28/11	143,200	3,492
TY-101	TA-5	6/27/11	7/18/11	59,942	1,430
TA-3	SY-102	6/28/11	6/29/11	180,300	5,922
TX-109	TA-4	6/28/11	8/5/11	144,000	5,921
TA-6	SY-102	6/29/11	6/30/11	154,500	5,272
T-101	TA-3	6/29/11	8/24/11	144,400	5,519
WATER	AN-105	7/1/11	7/1/11	25,000	0
BY-110	BA-5	7/8/11	8/13/11	147,300	2,631
U-106	UA-2	7/29/11	8/13/11	66,952	168
BX-112	BA-2	8/2/11	9/4/11	78,662	3,430
TX-109	TA-6	8/5/11	9/11/11	144,000	5,921
B-111	BA-6	8/12/11	8/13/11	719	24
U-111	UA-2	8/13/11	8/30/11	81,353	440
BY-110	BA-6	8/13/11	9/18/11	146,500	2,618
B-103	BA-2	9/4/11	9/22/11	41,507	78

HNF-2321
Revision 0

Table A.3-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 3.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
X	AP-108	AP-107	3/15/99	3/15/99	500	0	Empty 6AP
X	AP-106	AP-107	3/15/99	3/16/99	213,200	8	Empty 8AP
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Pre-Stage Envelope B
X	AP-102	AW-102	5/2/01	5/6/01	883,100	0	Empty 2AP
X	AP-104	AP-107	6/1/01	6/1/01	155,800	6	Empty 4AP
	WASH-WATER	AP-104	6/15/01	6/16/01	200,000	0	Flush Water to 4AP
	AP-104	AP-102	7/1/01	7/2/01	200,400	32	Flush 4AP
	AP-102	AP-106	7/15/01	7/16/01	231,800	61	Flush 2AP
	AN-105	AP-102	8/1/01	8/4/01	542,400	7,895	Retrieve/Stage LAW Batch 1, Contractor 1, Envelope A
	LERF	AN-105-PUMP	8/1/01	8/4/01	154,100	0	Dilution Water
	AN-105	AP-102	8/1/01	8/4/01	686,500	294	As-received Ghost
	AN-105	AP-104	8/5/01	8/8/01	542,400	7,895	Retrieve/Stage LAW Batch 1, Contractor 2, Envelope A
	LERF	AN-105-PUMP	8/5/01	8/8/01	154,100	0	Dilution Water
	AN-105	AP-104	8/5/01	8/8/01	686,500	294	As-received Ghost
	AP-106	AP-108	8/10/01	8/11/01	240,100	687	Flush 6AP
	AP-108	AN-105	8/12/01	8/13/01	240,200	618	Flush 8AP
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Pre-Stage Envelope B
	AP-102	AP-106	11/24/01	11/28/01	686,500	289	Deliver LAW Batch 1, Contractor 1
	AN-104	AP-102	11/28/01	12/1/01	502,200	12,513	Retrieve/Stage LAW Batch 2, Contractor 1, Envelope A
	LERF	AN-104-PUMP	11/28/01	12/1/01	200,800	0	Dilution Water
	AN-104	AP-102	11/28/01	12/1/01	684,700	702	As-received Ghost
	AP-104	AP-108	11/28/01	12/2/01	686,500	287	Deliver LAW Batch 1, Contractor 2
	AN-104	AP-104	12/2/01	12/5/01	502,200	12,513	Retrieve/Stage LAW Batch 2, Contractor 2, Envelope A
	LERF	AN-104-PUMP	12/2/01	12/5/01	200,800	0	Dilution Water
	AN-104	AP-104	12/2/01	12/5/01	684,700	702	As-received Ghost
RETURN 1	AP-107	AP-107	12/27/02	12/27/02	8,708	294	Returns From Contractor 1
AP-104	AP-108	AP-108	1/5/03	1/9/03	684,700	686	Deliver LAW Batch 2, Contractor 2
AP-102	AP-106	AP-106	1/9/03	1/12/03	684,700	686	Deliver LAW Batch 2, Contractor 1
AW-101	AP-104	AP-104	1/10/03	1/14/03	537,200	13,013	Retrieve/Stage LAW Batch 3, Contractor 2, Envelope A
	LERF	AW-101-PUMP	1/10/03	1/14/03	308,100	0	Dilution Water
AW-101	AP-104	AP-104	1/10/03	1/14/03	845,400	13,013	As-received Ghost
AW-101	AP-102	AP-102	1/15/03	1/19/03	537,200	13,013	Retrieve/Stage LAW Batch 3, Contractor 1, Envelope A
	LERF	AW-101-PUMP	1/15/03	1/19/03	308,100	0	Dilution Water
AW-101	AP-102	AP-102	1/15/03	1/19/03	845,400	13,013	As-received Ghost
RETURN 2	AP-107	AP-107	1/29/03	1/29/03	8,671	331	Returns From Contractor 2
RETURN 1	AP-107	AP-107	8/19/03	8/19/03	8,673	330	Returns From Contractor 1
RETURN 2	AP-107	AP-107	9/28/03	9/28/03	8,670	332	Returns From Contractor 2
AP-104	AP-108	AP-108	9/29/03	10/3/03	740,300	1,581	Deliver LAW Batch 3, Contractor 2
AP-102	AP-106	AP-106	10/3/03	10/6/03	740,300	1,581	Deliver LAW Batch 3, Contractor 1
AN-103	AP-104	AP-104	10/4/03	10/7/03	436,600	28,133	Retrieve/Stage LAW Batch 4, Contractor 2, Envelope A
	LERF	AN-103-PUMP	10/4/03	10/7/03	264,900	0	Dilution Water
AN-103	AP-104	AP-104	10/4/03	10/7/03	738,300	549	As-received Ghost
AN-103	AP-102	AP-102	10/8/03	10/11/03	436,600	28,133	Retrieve/Stage LAW Batch 4, Contractor 1, Envelope A
	LERF	AN-103-PUMP	10/8/03	10/11/03	264,900	0	Dilution Water
AN-103	AP-102	AP-102	10/8/03	10/11/03	738,300	549	As-received Ghost
RETURN 1	AP-107	AP-107	1/22/04	1/22/04	8,672	330	Returns From Contractor 1
RETURN 2	AP-107	AP-107	2/13/04	2/13/04	8,673	330	Returns From Contractor 2
AP-104	AP-108	AP-108	5/3/04	5/7/04	753,200	1,687	Deliver LAW Batch 4, Contractor 2
AP-102	AP-106	AP-106	5/7/04	5/11/04	753,200	1,687	Deliver LAW Batch 4, Contractor 1
WASH-WATER	AP-102	AP-102	5/12/04	5/12/04	118,100	0	Flush Water to 2AP
WASH-WATER	AP-104	AP-104	5/13/04	5/13/04	118,100	0	Flush Water to 4AP
RETURN 1	AP-107	AP-107	5/18/04	5/18/04	8,676	330	Returns From Contractor 1

HNF-2321
Revision 0

Table A.3-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 3.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	RETURN 2	AP-107	5/24/04	5/24/04	8,670	330	Returns From Contractor 2
	AP-102	AN-105	5/28/04	5/29/04	209,500	9,168	Flush 2AP
	WASH-CAUSTIC	AP-102	5/31/04	5/31/04	103,400	0	Shim Caustic for Batch 5, Contractor 1
	AP-104	AN-105	5/30/04	5/31/04	209,500	9,168	Flush 4AP
	WASH-CAUSTIC	AP-104	6/1/04	6/1/04	126,400	0	Shim Caustic for Batch 5, Contractor 2
	AP-101	AP-102	6/2/04	6/4/04	470,100	21	Retrieve/Stage LAW Batch 5, Contractor 1, Envelope A
	LERF	AP-101-PUMP	6/2/04	6/4/04	51,711	0	Dilution Water
	AP-101	AP-102	6/2/04	6/4/04	521,800	21	As-received Ghost
	AP-101	AP-104	6/5/04	6/8/04	574,500	26	Retrieve/Stage LAW Batch 5, Contractor 2, Envelope A
	LERF	AP-101-PUMP	6/5/04	6/8/04	63,203	0	Dilution Water
	AP-101	AP-104	6/5/04	6/8/04	637,700	26	As-received Ghost
	AW-104	AP-102	6/8/04	6/8/04	107,400	4	Complete Retrieve/Stage LAW Batch 5, Contractor 1, Envelope A
	AW-104	AP-104	6/9/04	6/9/04	131,200	5	Complete Retrieve/Stage LAW Batch 5, Contractor 2, Envelope A
	RETURN 1	AP-107	7/7/04	7/7/04	8,678	331	Returns From Contractor 1
	RETURN 2	AP-107	7/14/04	7/14/04	8,671	331	Returns From Contractor 2
	RETURN 1	AP-107	8/26/04	8/27/04	8,678	331	Returns From Contractor 1
	RETURN 2	AP-107	9/2/04	9/2/04	8,671	331	Returns From Contractor 2
	RETURN 1	AP-107	10/16/04	10/16/04	8,678	331	Returns From Contractor 1
	RETURN 2	AP-107	10/23/04	10/23/04	8,671	331	Returns From Contractor 2
	RETURN 1	AP-107	12/5/04	12/5/04	8,678	331	Returns From Contractor 1
	RETURN 2	AP-107	12/12/04	12/12/04	8,671	331	Returns From Contractor 2
	RETURN 1	AP-107	1/24/05	1/24/05	8,678	331	Returns From Contractor 1
	RETURN 2	AP-107	1/31/05	2/1/05	8,671	331	Returns From Contractor 2
	AP-104	AP-108	2/18/05	2/22/05	894,300	1,149	Deliver LAW Batch 5, Contractor 2
	AY-101	AP-104	2/23/05	2/24/05	283,600	12	Stage LAW Batch 6, Contractor 2, Envelope B
	AP-102	AP-106	2/22/05	2/26/05	731,500	1,136	Deliver LAW Batch 5, Contractor 1
	AY-101	AP-102	2/27/05	2/28/05	279,700	11	Stage LAW Batch 6, Contractor 1, Envelope B
	RETURN 1	AP-107	3/18/05	3/18/05	8,679	331	Returns From Contractor 1
	RETURN 2	AP-107	3/27/05	3/27/05	8,682	331	Returns From Contractor 2
	RETURN 1	AP-107	5/14/05	5/14/05	8,675	330	Returns From Contractor 1
	RETURN 2	AP-107	5/23/05	5/23/05	8,677	330	Returns From Contractor 2
	RETURN 1	AP-107	7/9/05	7/10/05	8,675	330	Returns From Contractor 1
	RETURN 2	AP-107	7/19/05	7/19/05	8,677	330	Returns From Contractor 2
	RETURN 1	AP-107	9/4/05	9/4/05	8,675	330	Returns From Contractor 1
	RETURN 2	AP-107	9/14/05	9/14/05	8,677	330	Returns From Contractor 2
	RETURN 1	AP-107	10/31/05	10/31/05	8,675	330	Returns From Contractor 1
	RETURN 2	AP-107	11/10/05	11/10/05	8,677	330	Returns From Contractor 2
X	SY-102	AN-105	11/15/02	11/18/02	650,000	27	Decant Supernate from SY-102
	AP-106	LAW-CONTRACTOR-1	6/1/02	12/9/05	3,623,000	5,414	Complete Processing Envelope A, Contractor 1
	AP-102	AP-106	12/9/05	12/11/05	279,600	49	Deliver LAW Batch 6, Contractor 1
	AN-107	AP-102	12/12/05	12/14/05	481,700	22	Retrieve/Stage LAW Batch 7/8, Contractor 1, Envelope A
	LERF	AN-107-PUMP	12/12/05	12/14/05	72,259	0	Dilution Water
	AN-107	AP-102	12/12/05	12/14/05	554,000	22	As-received Ghost
X	WATER	SY-102	12/15/05	12/17/05	426,000	0	Flush Water for 2SY Solids Cleanout
X	SY-102	AW-105	1/1/06	1/3/06	731,500	20,807	Cleanout Solids 2SY
	RETURN 2	AP-107	1/6/06	1/6/06	8,677	330	Returns From Contractor 2
	AP-108	LAW-CONTRACTOR-2	6/1/02	2/6/06	3,759,000	5,424	Complete Processing Envelope A, Contractor 2
	AP-104	AP-108	2/6/06	2/7/06	283,600	43	Deliver LAW Batch 6, Contractor 2
	AN-107	AP-104	2/8/06	2/10/06	481,700	22	Retrieve/Stage LAW Batch 7/8, Contractor 2, Envelope A
	LERF	AN-107-PUMP	2/8/06	2/10/06	72,260	0	Dilution Water
	AN-107	AP-104	2/8/06	2/10/06	554,000	22	As-received Ghost
	AP-106	LAW-CONTRACTOR-1	12/11/05	2/16/06	279,600	85	Complete Processing Envelope B, Contractor 1
	AP-102	AP-106	2/16/06	2/17/06	169,400	8	Deliver LAW Batch 7, Contractor 1

HNF-2321
Revision 0

Table A.3-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 3.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AP-102	AP-106	3/16/06	3/18/06	384,600	18	Deliver LAW Batch 8, Contractor 1
	AN-102	AP-102	3/19/06	3/22/06	481,700	23	Retrieve/Stage LAW Batch 9, Contractor 1, Envelope C
	LERF	AN-102-PUMP	3/19/06	3/22/06	289,000	0	Dilution Water
	AN-102	AP-102	3/19/06	3/22/06	770,700	23	As-received Ghost
	RETURN 1	AP-107	4/11/06	4/11/06	8,676	325	Returns From Contractor 1
	AP-108	LAW-CONTRACTOR-2	2/8/06	4/16/06	283,500	73	Complete Processing Envelope B, Contractor 2
	AP-104	AP-108	4/16/06	4/17/06	169,400	8	Deliver LAW Batch 7, Contractor 2
	AP-104	AP-108	5/14/06	5/16/06	384,600	17	Deliver LAW Batch 8, Contractor 2
	AN-102	AP-104	5/17/06	5/20/06	481,700	23	Retrieve/Stage LAW Batch 9, Contractor 2, Envelope C
	LERF	AN-102-PUMP	5/17/06	5/20/06	289,000	0	Dilution Water
	AN-102	AP-104	5/17/06	5/20/06	770,700	23	As-received Ghost
	AP-102	AP-106	7/29/06	8/2/06	770,700	23	Deliver LAW Batch 9, Contractor 1
	AN-106	AP-102	8/2/06	8/5/06	527,300	24	Retrieve/Stage LAW Batch 10, Contractor 1, Envelope C
	LERF	AN-106-PUMP	8/2/06	8/5/06	94,920	0	Dilution Water
	AN-106	AP-102	8/2/06	8/5/06	622,200	24	As-received Ghost
	AP-104	AP-108	9/26/06	9/30/06	770,700	23	Deliver LAW Batch 9, Contractor 2
	AN-106	AP-104	10/1/06	10/4/06	527,300	24	Retrieve/Stage LAW Batch 10, Contractor 2, Envelope C
	LERF	AN-106-PUMP	10/1/06	10/4/06	94,920	0	Dilution Water
	AN-106	AP-104	10/1/06	10/4/06	622,200	24	As-received Ghost
	SY-101	SY-102	10/2/06	10/7/06	537,800	5,486	Retrieve LAW Batch 11, Envelope C
	LERF	SY-101-PUMP	10/2/06	10/7/06	532,400	0	Dilution Water
	SY-101	SY-102	10/2/06	10/7/06	1,082,000	611	As-received Ghost
	SY-102	AN-102	10/10/06	10/13/06	1,026,000	2,529	Pre-Stage LAW Batch 11, Envelope C
	SY-101	SY-102	10/21/06	10/26/06	537,800	5,486	Retrieve LAW Batch 11, Envelope C
	LERF	SY-101-PUMP	10/21/06	10/26/06	532,400	0	Dilution Water
	SY-101	SY-102	10/21/06	10/26/06	1,082,000	611	As-received Ghost
	SY-102	AN-107	11/3/06	11/6/06	983,700	807	Pre-Stage LAW Batch 11, Envelope C
	AP-102	AP-106	3/26/07	3/29/07	622,200	24	Deliver LAW Batch 10, Contractor 1
	AN-102	AP-102	3/30/07	4/4/07	1,003,000	44	Stage LAW Batch 11, Contractor 1, Envelope C
	SY-103	SY-102	4/7/07	4/9/07	350,000	9,759	Retrieve LAW Batch 12, Envelope C
	LERF	SY-103-PUMP	4/7/07	4/9/07	183,500	0	Dilution Water
	SY-103	SY-102	4/7/07	4/9/07	537,500	1,449	As-received Ghost
	SY-102	AN-102	4/17/07	4/19/07	777,500	1,612	Pre-Stage LAW Batch 12, Envelope C
	AP-104	AP-108	5/24/07	5/27/07	622,200	24	Deliver LAW Batch 10, Contractor 2
	AN-107	AP-104	5/28/07	6/1/07	976,700	43	Stage LAW Batch 11, Contractor 2, Envelope C
	SY-103	SY-102	6/5/07	6/7/07	350,000	9,759	Retrieve LAW Batch 12, Envelope C
	LERF	SY-103-PUMP	6/5/07	6/7/07	183,500	0	Dilution Water
	SY-103	SY-102	6/5/07	6/7/07	537,500	1,449	As-received Ghost
	SY-102	AN-107	6/15/07	6/16/07	537,500	1,433	Pre-Stage LAW Batch 12, Envelope C
	RETURN 2	AP-107	7/6/07	7/6/07	8,670	330	Returns From Contractor 2
	AP-102	AP-106	10/30/07	11/4/07	1,003,000	44	Deliver LAW Batch 11, Contractor 1
	AN-102	AP-102	11/5/07	11/8/07	763,200	34	Stage LAW Batch 12, Contractor 1, Envelope C
	AP-104	AP-108	12/29/07	1/3/08	976,700	43	Deliver LAW Batch 11, Contractor 2
	AN-107	AP-104	1/4/08	1/6/08	524,700	23	Stage LAW Batch 12, Contractor 2, Envelope C
	AP-102	AP-106	8/27/08	8/30/08	763,200	34	Deliver LAW Batch 12, Contractor 1
	AP-104	AP-108	11/1/08	11/3/08	524,700	23	Deliver LAW Batch 12, Contractor 2
	AP-108	LAW-CONTRACTOR-2	4/17/06	5/18/09	3,448,000	144	Complete Processing Envelope C, Contractor 1
	RETURN 2	AP-107	5/19/09	5/19/09	2,052	78	Returns From Contractor 2
	AP-106	LAW-CONTRACTOR-1	2/17/06	5/25/09	3,713,000	157	Complete Processing Envelope C, Contractor 2
	RETURN 1	AP-107	5/26/09	5/26/09	5,806	157	Returns From Contractor 1
X	AP-107	AZ-101	6/5/09	6/6/09	277,700	9,450	Transfer Returns to AZ-101 (Phase 2 HLW Tank)

HNF-2321
Revision 0

Table A.3-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 3.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AY-102	C-106	7/1/98	7/5/98	920,700	31	Sluice "Water" for C-106 Retrieval - Lumped (See Below)
	C-106	AY-102	7/15/98	11/10/98	809,000	15,169	C-106 Retrieval (Project W-320)
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Initial Decant 1AZ
	WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0	First Wash 1AZ
	AZ-101	AP-107	10/9/00	10/10/00	143,200	0	First Decant 1AZ
	WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0	Second Wash 1AZ
	AZ-101	AP-107	11/30/00	12/1/00	140,200	0	Second Decant 1AZ
	WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0	Third Wash 1AZ
	AZ-101	AP-107	1/20/01	1/21/01	142,900	0	Third Decant 1AZ
	WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0	Transfer Water Add 1AZ
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Initial Decant 2AZ
	AZ-102	AP-107	11/15/01	11/16/01	181,800	0	Complete Initial Decant 2AZ
	WASH-WATER	AZ-102	11/16/01	11/17/01	213,000	0	First Wash 2AZ
	AZ-101	PIHLW_FEED_TANK	5/17/02	5/17/02	134,300	5,079	Deliver Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-102	AN-105	4/8/02	4/8/02	127,700	0	First Decant 2AZ
	WASH-WATER	AZ-102	4/9/02	4/11/02	213,000	0	Second Wash 2AZ
	AZ-102	AN-105	5/30/02	5/31/02	210,300	0	Second Decant 2AZ
	WASH-WATER	AZ-102	6/1/02	6/2/02	213,000	0	Third Wash 2AZ
	AZ-102	AN-105	7/21/02	7/22/02	211,800	0	Third Decant 2AZ
	WASH-WATER	AZ-102	7/23/02	7/24/02	213,000	0	Fourth Wash 2AZ
	AZ-102	AN-105	9/11/02	9/13/02	212,500	0	Fourth Decant 2AZ
	WASH-WATER	AZ-102	9/14/02	9/14/02	110,000	0	Transfer Water Add 2AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079	Process Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-101	PIHLW_FEED_TANK	2/21/03	2/21/03	134,300	5,079	Deliver Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
X	AY-102	AZ-101	2/26/03	3/3/03	819,600	16,032	Transfer 2AY/6C Slurry to 1AZ for Pretreatment
	AZ-101	AN-105	10/28/03	10/31/03	622,700	0	Initial Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	10/31/03	11/2/03	324,000	0	First Wash 2AY/6C Slurry in 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079	Process Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
	AZ-102	PIHLW_FEED_TANK	11/14/03	11/14/03	123,900	5,202	Deliver Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-101	AN-105	12/21/03	12/22/03	320,000	0	First Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	12/24/03	12/25/03	324,000	0	Second Wash 2AY/6C Slurry in 1AZ
	AZ-101	AN-105	2/12/04	2/14/04	322,300	0	Second Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	2/15/04	2/17/04	433,600	0	Transfer Water Add 1AZ for 2AY/6C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202	Process Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-102	PIHLW_FEED_TANK	8/7/04	8/8/04	123,900	5,202	Deliver Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	C-104	AY-102	8/1/04	9/8/04	279,100	9,724	C-104 Retrieval (Project W-???)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202	Process Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	AZ-101	PIHLW_FEED_TANK	5/2/05	5/2/05	127,200	3,269	Deliver Batch 1 of 2AY/6C from 1AZ, Envelope D (Batch 5 Overall)
	AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360	Transfer 4C Slurry to 2AZ for Pretreatment
	PIHLW_FEED_TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269	Process Batch 1 of 2AY/6C, Envelope D (Batch 5 Overall)
	AZ-101	PIHLW_FEED_TANK	11/16/05	11/17/05	127,200	3,269	Deliver Batch 2 of 2AY/6C from 1AZ, Envelope D (Batch 6 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269	Process Batch 2 of 2AY/6C, Envelope D (Batch 6 Overall)
	AZ-101	PIHLW_FEED_TANK	6/2/06	6/3/06	127,200	3,269	Deliver Batch 3 of 2AY/6C from 1AZ, Envelope D (Batch 7 Overall)
	AZ-102	AN-105	6/23/06	6/24/06	159,500	0	Initial Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	6/24/06	6/26/06	324,000	0	First Wash 4C Slurry in 2AZ
	AZ-102	AN-105	8/14/06	8/15/06	320,100	0	First Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	8/17/06	8/18/06	324,000	0	Second Wash 4C Slurry in 2AZ
	AZ-102	AN-105	10/6/06	10/8/06	322,700	0	Second Decant 4C Slurry from 2AZ

Table A.3-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 3.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	WASH-WATER	AZ-102	10/9/06	10/10/06	150,500	0	Transfer Water Add 2AZ for 4C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269	Process Batch 3 of 2AY/6C, Envelope D (Batch 9 Overall)
	AZ-101	PIHLW_FEED_TANK	12/18/06	12/18/06	127,200	3,269	Deliver Batch 4 of 2AY/6C from 1AZ, Envelope D (Batch 8 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269	Process Batch 4 of 2AY/6C, Envelope D (Batch 8 Overall)
	AZ-101	PIHLW_FEED_TANK	7/4/07	7/5/07	127,200	3,269	Deliver Batch 5 of 2AY/6C from 1AZ, Envelope D (Batch 9 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269	Process Batch 5 of 2AY/6C, Envelope D (Batch 9 Overall)
	AZ-102	PIHLW_FEED_TANK	1/18/08	1/19/08	137,700	4,774	Deliver Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774	Process Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	AZ-102	PIHLW_FEED_TANK	12/22/08	12/22/08	137,700	4,774	Deliver Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
X	AP-107	AZ-101	6/5/09	6/6/09	277,700	9,450	LAW Returns to 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774	Process Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
BPTCO	AP-106	10/1/96	10/1/96	11,000	0
34L87	AP-106	10/1/96	10/1/96	10,000	0
EVAPF	AP-106	10/1/96	10/1/96	10,000	0
TAL88	AP-106	10/1/96	10/1/96	4,000	0
WNE88	AP-106	10/1/96	10/1/96	1,000	0
TNS88	AP-106	10/1/96	10/1/96	750	250
ZNL87	SY-102	10/1/96	10/1/96	2,000	0
INS96	AW-105	10/1/96	10/1/96	750	250
WATER	SY-102	10/1/96	10/1/96	5,000	0
SPN87	AP-106	10/1/96	10/1/96	7,000	0
WESF	AP-106	10/1/96	10/1/96	5,000	0
IFL96	AW-105	10/1/96	10/1/96	13,000	0
WNW88	SY-102	10/1/96	10/1/96	19,000	0
WATER	AP-106	10/2/96	10/2/96	12,000	0
WATER	SY-102	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	3,000	0
WATER	AW-105	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WNW88	SY-102	11/1/96	11/1/96	14,000	0
WATER	SY-102	11/1/96	11/1/96	3,000	0
WNE88	AP-106	11/1/96	11/1/96	1,000	0
EVAPF	AP-106	11/1/96	11/1/96	10,000	0
BPTCO	AP-106	11/1/96	11/1/96	10,000	0
BPTCO	AP-106	12/1/96	12/1/96	11,000	0
EVAPF	AP-106	12/1/96	12/1/96	10,000	0
WNW88	SY-102	12/1/96	12/1/96	14,000	0
WNE88	AP-106	12/1/96	12/1/96	1,000	0
WATER	SY-102	12/1/96	12/1/96	3,000	0
WESF	AP-106	1/1/97	1/1/97	5,000	0
WNE88	AP-106	1/1/97	1/1/97	1,000	0
BPTCO	AP-106	1/1/97	1/1/97	10,000	0
SPN87	AP-106	1/1/97	1/1/97	6,000	0
WATER	AP-106	1/1/97	1/1/97	4,000	0
34L87	AP-106	1/1/97	1/1/97	10,000	0
WNW88	SY-102	1/1/97	1/1/97	14,000	0
TAL88	AP-106	1/1/97	1/1/97	4,000	0
WATER	SY-102	1/1/97	1/1/97	4,000	0
EVAPF	AP-106	1/1/97	1/1/97	10,000	0
AW-106	AP-101	1/4/97	1/4/97	69,511	3
AN-106	AP-108	1/11/97	1/12/97	177,000	7
WATER	SY-102	2/1/97	2/1/97	4,000	0
WNW88	SY-102	2/1/97	2/1/97	14,000	0
EVAPF	AP-106	2/1/97	2/1/97	10,000	0
BPTCO	AP-106	2/1/97	2/1/97	10,000	0
EVAPF	AW-102	2/20/97	2/20/97	50,000	0
AP-105	AW-102	2/20/97	2/24/97	942,000	39
WATER	SY-102	3/1/97	3/1/97	4,000	0
WNW88	SY-102	3/1/97	3/1/97	16,000	0
PXTCO	AP-106	3/1/97	3/1/97	5,000	0
34L87	AP-106	3/1/97	3/1/97	10,000	0
EVAPF	AP-106	3/1/97	3/1/97	10,000	0
WATER	AP-106	3/1/97	3/1/97	5,000	0
BPTCO	AP-106	3/1/97	3/1/97	11,000	0
AW-102	242-A	2/26/97	3/2/97	1,027,000	42
242-A	AW-106	2/26/97	3/2/97	622,000	42

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	LERF	2/26/97	3/2/97	405,000	0
EVAPF	AW-102	3/3/97	3/3/97	35,000	0
WATER	SY-102	4/1/97	4/1/97	6,000	0
WESF	AP-106	4/1/97	4/1/97	5,000	0
TAL88	AP-106	4/1/97	4/1/97	4,000	0
EVAPF	AP-106	4/1/97	4/1/97	10,000	0
WNE88	AP-106	4/1/97	4/1/97	1,000	0
BPTCO	AP-106	4/1/97	4/1/97	10,000	0
SPN87	AP-106	4/1/97	4/1/97	6,000	0
WNW88	SY-102	4/1/97	4/1/97	22,000	0
AW-106	AP-105	4/25/97	4/28/97	617,000	29
AY-101	AP-108	4/25/97	4/29/97	809,000	30
BPTCO	AP-106	5/1/97	5/1/97	11,000	0
WATER	AP-106	5/1/97	5/1/97	4,000	0
WNE88	AP-106	5/1/97	5/1/97	1,000	0
WATER	SY-102	5/1/97	5/1/97	5,000	0
34L87	AP-106	5/1/97	5/1/97	10,000	0
EVAPF	AP-106	5/1/97	5/1/97	10,000	0
WNW88	SY-102	5/1/97	5/1/97	19,000	0
BPTCO	AP-106	6/1/97	6/1/97	10,000	0
WATER	SY-102	6/1/97	6/1/97	4,000	0
WNW88	SY-102	6/1/97	6/1/97	16,000	0
WNE88	AP-106	6/1/97	6/1/97	1,000	0
EVAPF	AP-106	6/1/97	6/1/97	10,000	0
WATER	SY-102	7/1/97	7/1/97	6,000	0
34L87	AP-106	7/1/97	7/1/97	10,000	0
WNW88	SY-102	7/1/97	7/1/97	24,000	0
WATER	AN-101	7/1/97	7/1/97	5,000	0
WNE88	AP-106	7/1/97	7/1/97	1,000	0
TAL88	AP-106	7/1/97	7/1/97	4,000	0
BPTCO	AP-106	7/1/97	7/1/97	11,000	0
EVAPF	AP-106	7/1/97	7/1/97	10,000	0
WESF	AP-106	7/1/97	7/1/97	5,000	0
WCE88	AN-101	7/1/97	7/1/97	20,000	0
WATER	AP-106	7/1/97	7/1/97	4,000	0
SPN87	AP-106	7/1/97	7/1/97	6,000	0
AN-106	AP-108	7/25/97	7/26/97	194,000	7
AP-108	AW-102	7/25/97	7/31/97	1,198,000	42
WNE88	AP-106	8/1/97	8/1/97	16,000	0
WATER	AP-106	8/1/97	8/1/97	4,000	0
EVAPF	AP-106	8/1/97	8/1/97	10,000	0
BPTCO	AP-106	8/1/97	8/1/97	10,000	0
WATER	SY-102	8/1/97	8/1/97	13,000	0
WCE88	AN-101	8/1/97	8/1/97	25,000	0
WATER	AN-101	8/1/97	8/1/97	6,000	0
WNW88	SY-102	8/1/97	8/1/97	51,000	0
AW-102	242-A	7/28/97	8/2/97	1,198,000	39
242-A	AW-106	7/28/97	8/2/97	346,700	39
242-A	LERF	7/28/97	8/2/97	851,300	0
EVAPF	AW-102	8/3/97	8/3/97	25,000	0
WATER	AP-107	8/20/97	8/20/97	35,000	0
AW-106	AN-106	8/25/97	8/26/97	347,000	16
SY-102	AP-107	8/25/97	8/27/97	520,000	20
WATER	SY-102	9/1/97	9/1/97	15,000	0
WATER	AN-101	9/1/97	9/1/97	10,000	0
WATER	AP-106	9/1/97	9/1/97	12,000	0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPF	AP-106	9/1/97	9/1/97	10,000	0
BPTCO	AP-106	9/1/97	9/1/97	10,000	0
WNW88	SY-102	9/1/97	9/1/97	61,000	0
WCE88	AN-101	9/1/97	9/1/97	40,000	0
WNE88	AP-106	9/1/97	9/1/97	46,000	0
EVAPF	AP-106	10/1/97	10/1/97	10,000	0
WATER	AP-106	10/1/97	10/1/97	12,000	0
34L87	AP-106	10/1/97	10/1/97	7,000	0
WATER	AN-101	10/1/97	10/1/97	10,000	0
WESF	AP-106	10/1/97	10/1/97	5,000	0
BPTCO	AP-106	10/1/97	10/1/97	11,000	0
WNE88	AP-106	10/1/97	10/1/97	46,000	0
TAL88	AP-106	10/1/97	10/1/97	4,000	0
ZNL87	SY-102	10/1/97	10/1/97	4,000	0
PXTCO	AP-106	10/1/97	10/1/97	5,000	0
TNS88	AP-106	10/1/97	10/1/97	750	250
SPN87	SY-102	10/1/97	10/1/97	7,000	0
34L87	AP-106	10/1/97	10/1/97	10,000	0
WCE88	AN-101	10/1/97	10/1/97	40,000	0
WATER	SY-102	10/1/97	10/1/97	28,000	0
WNW88	SY-102	10/1/97	10/1/97	111,000	0
WATER	SY-102	10/2/97	10/2/97	5,000	0
WATER	SY-102	10/2/97	10/2/97	1,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
WASH-CAUSTIC	AN-107	10/2/97	10/2/97	66,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
AY-102	AP-106	10/25/97	10/25/97	35,999	1
WATER	AY-102	10/26/97	10/27/97	176,000	0
EVAPF	AP-106	11/1/97	11/1/97	10,000	0
WATER	AP-106	11/1/97	11/1/97	12,000	0
WATER	AN-101	11/1/97	11/1/97	10,000	0
WNE88	AP-106	11/1/97	11/1/97	46,000	0
WCE88	AN-101	11/1/97	11/1/97	40,000	0
WATER	SY-102	11/1/97	11/1/97	30,000	0
WNW88	SY-102	11/1/97	11/1/97	119,000	0
WATER	AN-101	12/1/97	12/1/97	10,000	0
WCE88	AN-101	12/1/97	12/1/97	40,000	0
WATER	SY-102	12/1/97	12/1/97	33,000	0
WATER	AP-106	12/1/97	12/1/97	11,000	0
EVAPF	AP-106	12/1/97	12/1/97	10,000	0
WNE88	AP-106	12/1/97	12/1/97	42,000	0
WNW88	SY-102	12/1/97	12/1/97	131,000	0
WATER	AP-107	12/20/97	12/20/97	35,000	0
SY-102	AP-107	12/26/97	12/28/97	520,000	21
AP-106	AP-104	12/25/97	12/30/97	996,600	35
SPN87	SY-102	1/1/98	1/1/98	6,000	0
BPTCO	AP-106	1/1/98	1/1/98	11,000	0
WATER	AN-101	1/1/98	1/1/98	10,000	0
WCE88	AN-101	1/1/98	1/1/98	40,000	0
WATER	SY-102	1/1/98	1/1/98	37,000	0
WATER	AP-106	1/1/98	1/1/98	10,000	0
TAL88	AP-106	1/1/98	1/1/98	4,000	0
WATER	AP-106	1/1/98	1/1/98	4,000	0
34L87	AP-106	1/1/98	1/1/98	10,000	0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPF	AP-106	1/1/98	1/1/98	10,000	0
WNE88	AP-106	1/1/98	1/1/98	38,000	0
WNW88	SY-102	1/1/98	1/1/98	146,000	0
EVAPF	AP-106	2/1/98	2/1/98	10,000	0
WATER	AP-106	2/1/98	2/1/98	8,000	0
WNE88	AP-106	2/1/98	2/1/98	33,000	0
WATER	SY-102	2/1/98	2/1/98	35,000	0
WCE88	AN-101	2/1/98	2/1/98	40,000	0
WATER	AN-101	2/1/98	2/1/98	10,000	0
WNW88	SY-102	2/1/98	2/1/98	140,000	0
34L87	AP-106	3/1/98	3/1/98	10,000	0
EVAPF	AP-106	3/1/98	3/1/98	10,000	0
WATER	AP-106	3/1/98	3/1/98	5,000	0
WATER	AP-106	3/1/98	3/1/98	7,000	0
BPTCO	AP-106	3/1/98	3/1/98	11,000	0
WATER	SY-102	3/1/98	3/1/98	31,000	0
WNE88	AP-106	3/1/98	3/1/98	26,000	0
WCE88	AN-101	3/1/98	3/1/98	40,000	0
WATER	AN-101	3/1/98	3/1/98	10,000	0
WNW88	SY-102	3/1/98	3/1/98	124,000	0
WATER	AP-104	3/20/98	3/20/98	35,000	0
SY-102	AP-104	3/25/98	3/27/98	520,000	21
AP-104	AW-102	3/25/98	3/30/98	998,000	33
EVAPF	AP-106	4/1/98	4/1/98	10,000	0
WATER	AN-101	4/1/98	4/1/98	25,000	0
WNE88	AP-106	4/1/98	4/1/98	20,000	0
WATER	AP-106	4/1/98	4/1/98	5,000	0
TAL88	AP-106	4/1/98	4/1/98	4,000	0
SPN87	SY-102	4/1/98	4/1/98	6,000	0
WATER	SY-102	4/1/98	4/1/98	36,000	0
WCE88	AN-101	4/1/98	4/1/98	101,000	0
AW-102	242-A	3/28/98	4/1/98	1,058,000	31
242-A	AW-106	3/28/98	4/1/98	180,100	31
242-A	LRF	3/28/98	4/1/98	877,800	0
WNW88	SY-102	4/1/98	4/2/98	146,000	0
34L87	AP-106	5/1/98	5/1/98	10,000	0
WATER	AP-106	5/1/98	5/1/98	5,000	0
WNE88	AP-106	5/1/98	5/1/98	20,000	0
BPTCO	AP-106	5/1/98	5/1/98	11,000	0
WATER	AN-101	5/1/98	5/1/98	24,000	0
WCW88	SY-102	5/1/98	5/1/98	19,000	0
WATER	SY-102	5/1/98	5/1/98	5,000	0
EVAPF	AP-106	5/1/98	5/1/98	10,000	0
WCE88	AN-101	5/1/98	5/1/98	95,000	0
WATER	SY-102	5/1/98	5/1/98	37,000	0
WATER	AP-106	5/1/98	5/1/98	4,000	0
WNW88	SY-102	5/1/98	5/2/98	147,000	0
AP-107	AW-102	5/25/98	5/30/98	1,104,000	40
WNE88	AP-106	6/1/98	6/1/98	16,000	0
EVAPF	AP-106	6/1/98	6/1/98	10,000	0
WATER	AN-101	6/1/98	6/1/98	7,000	0
WCE88	AN-101	6/1/98	6/1/98	28,000	0
WATER	AP-106	6/1/98	6/1/98	4,000	0
WATER	SY-102	6/1/98	6/1/98	5,000	0
WCW88	SY-102	6/1/98	6/1/98	19,000	0
WATER	SY-102	6/1/98	6/1/98	36,000	0

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	242-A	5/28/98	6/1/98	1,104,000	39
242-A	AW-106	5/28/98	6/1/98	448,700	39
242-A	LERF	5/28/98	6/1/98	655,200	0
WNNW88	SY-102	6/1/98	6/2/98	142,000	0
EVAPF	AW-102	6/3/98	6/3/98	35,000	0
WATER	AP-104	6/20/98	6/20/98	35,000	0
AW-106	AP-105	6/25/98	6/26/98	341,000	17
SY-102	AP-104	6/25/98	6/27/98	520,000	21
WATER	SY-102	7/1/98	7/1/98	3,000	0
WCE88	AN-101	7/1/98	7/1/98	28,000	0
WATER	SY-102	7/1/98	7/1/98	32,000	0
WATER	AN-101	7/1/98	7/1/98	7,000	0
SPN87	SY-102	7/1/98	7/1/98	6,000	0
WCW88	SY-102	7/1/98	7/1/98	13,000	0
WNE88	AP-106	7/1/98	7/1/98	13,000	0
EVAPF	AP-106	7/1/98	7/1/98	10,000	0
34L87	AP-106	7/1/98	7/1/98	10,000	0
TAL88	AP-106	7/1/98	7/1/98	4,000	0
WATER	AP-106	7/1/98	7/1/98	4,000	0
WATER	AP-106	7/1/98	7/1/98	3,000	0
WNNW88	SY-102	7/1/98	7/2/98	127,000	0
AY-102	C-106	7/1/98	7/5/98	920,700	31
BPTCO	AP-106	7/11/98	7/11/98	11,000	0
WNE88	AP-106	8/1/98	8/1/98	7,000	0
EVAPF	AP-106	8/1/98	8/1/98	10,000	0
WATER	AP-106	8/1/98	8/1/98	2,000	0
WCW88	SY-102	8/1/98	8/1/98	13,000	0
WATER	SY-102	8/1/98	8/1/98	30,000	0
WATER	AN-101	8/1/98	8/1/98	7,000	0
WCE88	AN-101	8/1/98	8/1/98	28,000	0
WATER	SY-102	8/1/98	8/1/98	3,000	0
WNNW88	SY-102	8/1/98	8/1/98	121,000	0
WNE88	AP-106	9/1/98	9/1/98	7,000	0
WATER	AN-101	9/1/98	9/1/98	7,000	0
EVAPF	AP-106	9/1/98	9/1/98	10,000	0
WCE88	AN-101	9/1/98	9/1/98	28,000	0
WATER	AP-106	9/1/98	9/1/98	2,000	0
WATER	SY-102	9/1/98	9/1/98	2,000	0
WCW88	SY-102	9/1/98	9/1/98	8,000	0
WATER	SY-102	9/1/98	9/1/98	34,000	0
WNNW88	SY-102	9/1/98	9/2/98	137,000	0
WATER	AP-107	9/20/98	9/20/98	35,000	0
SY-102	AP-107	9/25/98	9/27/98	520,000	21
AP-101	AW-103	9/25/98	9/28/98	625,000	27
TNS88	AP-106	10/1/98	10/1/98	750	250
WNE88	AP-106	10/1/98	10/1/98	3,000	0
TAL88	AP-106	10/1/98	10/1/98	4,000	0
34L87	AP-106	10/1/98	10/1/98	10,000	0
WATER	AN-101	10/1/98	10/1/98	7,000	0
WESP	AP-106	10/1/98	10/1/98	5,000	0
PXTCO	AP-106	10/1/98	10/1/98	5,000	0
WCE88	AN-101	10/1/98	10/1/98	28,000	0
WATER	AP-106	10/1/98	10/1/98	1,000	0
EVAPF	AP-106	10/1/98	10/1/98	10,000	0
WCW88	SY-102	10/1/98	10/1/98	8,000	0
WATER	SY-102	10/1/98	10/1/98	30,000	0

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	10/1/98	10/1/98	2,000	0
SPN87	SY-102	10/1/98	10/1/98	7,000	0
ZNL87	SY-102	10/1/98	10/1/98	4,000	0
WNNW88	SY-102	10/1/98	10/1/98	121,000	0
WATER	SY-102	10/2/98	10/2/98	5,000	0
WATER	AP-106	10/2/98	10/2/98	5,000	0
WATER	AP-106	10/2/98	10/2/98	3,000	0
EVAPF	AW-102	10/4/98	10/4/98	50,000	0
AW-102	AW-106	10/9/98	10/9/98	150,000	6
AP-104	AW-102	10/5/98	10/11/98	1,107,000	43
AW-104	AP-107	10/9/98	10/11/98	540,000	18
AW-104	AP-104	10/18/98	10/18/98	164,000	6
AP-101	AW-104	10/21/98	10/23/98	460,000	20
AW-106	AP-101	10/29/98	10/30/98	289,000	13
EVAPF	AP-106	11/1/98	11/1/98	10,000	0
WNE88	AP-106	11/1/98	11/1/98	2,000	0
WATER	SY-102	11/1/98	11/1/98	1,000	0
WCW88	SY-102	11/1/98	11/1/98	3,000	0
WATER	SY-102	11/1/98	11/1/98	30,000	0
WATER	AN-101	11/1/98	11/1/98	7,000	0
WCE88	AN-101	11/1/98	11/1/98	28,000	0
WNNW88	SY-102	11/1/98	11/1/98	120,000	0
AW-106	AW-102	11/5/98	11/5/98	150,000	9
AW-102	242-A	11/4/98	11/9/98	1,193,000	46
242-A	AW-106	11/4/98	11/9/98	602,900	46
242-A	LERF	11/4/98	11/9/98	589,600	0
C-106	AY-102	7/15/98	11/10/98	809,000	15,169
WATER	AN-101	12/1/98	12/1/98	6,000	0
WATER	SY-102	12/1/98	12/1/98	1,000	0
WNE88	AP-106	12/1/98	12/1/98	1,000	0
EVAPF	AP-106	12/1/98	12/1/98	10,000	0
WCW88	SY-102	12/1/98	12/1/98	3,000	0
WCE88	AN-101	12/1/98	12/1/98	23,000	0
WATER	SY-102	12/1/98	12/1/98	29,000	0
WNNW88	SY-102	12/1/98	12/1/98	116,000	0
WATER	AP-104	12/20/98	12/20/98	35,000	0
SY-102	AP-104	12/25/98	12/27/98	520,000	21
AW-106	AP-101	12/25/98	12/28/98	605,000	27
WATER	AN-101	1/1/99	1/1/99	6,000	0
SPN87	SY-102	1/1/99	1/1/99	6,000	0
WCE88	AN-101	1/1/99	1/1/99	23,000	0
WCW88	SY-102	1/1/99	1/1/99	23,000	0
WATER	SY-102	1/1/99	1/1/99	6,000	0
TAL88	AP-106	1/1/99	1/1/99	4,000	0
34L87	AP-106	1/1/99	1/1/99	10,000	0
EVAPF	AP-106	1/1/99	1/1/99	10,000	0
WATER	SY-102	1/1/99	1/1/99	25,000	0
WATER	AP-106	1/1/99	1/1/99	4,000	0
WNNW88	SY-102	1/1/99	1/1/99	102,000	0
AP-106	AP-104	1/25/99	1/27/99	385,000	14
WATER	SY-102	2/1/99	2/1/99	23,000	0
WCE88	AN-101	2/1/99	2/1/99	23,000	0
WCW88	SY-102	2/1/99	2/1/99	45,000	0
WATER	AN-101	2/1/99	2/1/99	6,000	0
WATER	SY-102	2/1/99	2/1/99	11,000	0
EVAPF	AP-106	2/1/99	2/1/99	10,000	0

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	2/1/99	2/1/99	91,000	0
WCE88	AN-101	3/1/99	3/1/99	17,000	0
WATER	SY-102	3/1/99	3/1/99	21,000	0
WATER	AN-101	3/1/99	3/1/99	4,000	0
34L87	AP-106	3/1/99	3/1/99	10,000	0
EVAPF	AP-106	3/1/99	3/1/99	10,000	0
WATER	SY-102	3/1/99	3/1/99	17,000	0
WATER	AP-106	3/1/99	3/1/99	5,000	0
WCW88	SY-102	3/1/99	3/1/99	67,000	0
WNW88	SY-102	3/1/99	3/1/99	82,000	0
AN-101	AP-103	3/5/99	3/10/99	1,024,000	0
AP-107	AW-102	3/5/99	3/10/99	1,095,000	40
AW-102	242-A	3/8/99	3/12/99	1,095,000	38
242-A	AW-106	3/8/99	3/12/99	353,000	38
242-A	LERF	3/8/99	3/12/99	741,900	0
WATER	AP-107	3/20/99	3/20/99	35,000	0
SY-102	AP-107	3/25/99	3/27/99	520,000	21
SPN87	SY-102	4/1/99	4/1/99	6,000	0
WATER	SY-102	4/1/99	4/1/99	23,000	0
WATER	AP-108	4/1/99	4/1/99	4,000	0
WNW88	SY-102	4/1/99	4/1/99	64,000	0
WATER	SY-102	4/1/99	4/1/99	16,000	0
TAL88	AP-106	4/1/99	4/1/99	4,000	0
WCW88	SY-102	4/1/99	4/1/99	91,000	0
EVAPF	AW-102	4/2/99	4/2/99	35,000	0
EVAPF	AP-106	4/3/99	4/3/99	10,000	0
WCE88	AP-108	4/3/99	4/3/99	17,000	0
AW-106	AP-101	4/15/99	4/16/99	222,500	10
AW-106	AW-104	4/25/99	4/25/99	131,100	6
WATER	SY-102	5/1/99	5/1/99	15,000	0
WCE88	AP-108	5/1/99	5/1/99	17,000	0
WATER	AP-108	5/1/99	5/1/99	4,000	0
WATER	SY-102	5/1/99	5/1/99	21,000	0
WNW88	SY-102	5/1/99	5/1/99	60,000	0
WATER	AP-106	5/1/99	5/1/99	4,000	0
34L87	AP-106	5/1/99	5/1/99	10,000	0
EVAPF	AP-106	5/1/99	5/1/99	10,000	0
WCW88	SY-102	5/1/99	5/1/99	84,000	0
WATER	SY-102	6/1/99	6/1/99	14,000	0
WATER	SY-102	6/1/99	6/1/99	18,000	0
WNW88	SY-102	6/1/99	6/1/99	56,000	0
WATER	AP-108	6/1/99	6/1/99	4,000	0
EVAPF	AP-106	6/1/99	6/1/99	10,000	0
WCE88	AP-108	6/1/99	6/1/99	17,000	0
WCW88	SY-102	6/1/99	6/1/99	74,000	0
WATER	AP-107	6/20/99	6/20/99	35,000	0
SY-102	AP-107	6/25/99	6/27/99	520,000	22
WCE88	AP-108	7/1/99	7/1/99	11,000	0
WATER	AP-108	7/1/99	7/1/99	3,000	0
WATER	AP-106	7/1/99	7/1/99	4,000	0
34L87	AP-106	7/1/99	7/1/99	10,000	0
EVAPF	AP-106	7/1/99	7/1/99	10,000	0
SPN87	SY-102	7/1/99	7/1/99	6,000	0
WATER	SY-102	7/1/99	7/1/99	13,000	0
TAL88	AP-106	7/1/99	7/1/99	4,000	0
WATER	SY-102	7/1/99	7/1/99	16,000	0

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	7/1/99	7/1/99	52,000	0
WCW88	SY-102	7/1/99	7/1/99	65,000	0
AP-103	AW-102	7/20/99	7/25/99	1,017,000	44
AW-102	242-A	7/24/99	7/28/99	1,019,000	41
242-A	AW-106	7/24/99	7/28/99	928,200	41
242-A	LERF	7/24/99	7/28/99	90,768	0
WCE88	AP-108	8/1/99	8/1/99	11,000	0
WATER	SY-102	8/1/99	8/1/99	17,000	0
WATER	AP-108	8/1/99	8/1/99	3,000	0
WCW88	SY-102	8/1/99	8/1/99	65,000	0
WATER	SY-102	8/1/99	8/1/99	16,000	0
EVAPF	AP-106	8/1/99	8/1/99	10,000	0
WNW88	SY-102	8/1/99	8/1/99	69,000	0
AW-106	AN-106	8/20/99	8/23/99	748,000	33
AW-106	AP-108	8/25/99	8/26/99	180,000	8
WATER	SY-102	9/1/99	9/1/99	15,000	0
WATER	AP-108	9/1/99	9/1/99	3,000	0
WCE88	AP-108	9/1/99	9/1/99	11,000	0
EVAPF	AP-106	9/1/99	9/1/99	10,000	0
WATER	SY-102	9/1/99	9/1/99	21,000	0
WCW88	SY-102	9/1/99	9/1/99	58,000	0
WNW88	SY-102	9/1/99	9/1/99	85,000	0
WATER	AP-104	9/25/99	9/25/99	35,000	0
AW-102	AW-106	9/25/99	9/25/99	99,996	4
SY-102	AP-104	9/25/99	9/27/99	520,000	22
AP-104	AW-102	9/24/99	9/29/99	1,104,000	41
INS96	AW-105	10/1/99	10/1/99	750	250
WATER	SY-102	10/1/99	10/1/99	15,000	0
WESF	AP-106	10/1/99	10/1/99	5,000	0
34L87	AP-106	10/1/99	10/1/99	10,000	0
1KL96	AW-105	10/1/99	10/1/99	30,000	0
WATER	AP-108	10/1/99	10/1/99	3,000	0
WCE88	AP-108	10/1/99	10/1/99	11,000	0
TNS88	AP-106	10/1/99	10/1/99	750	250
EVAPF	AP-106	10/1/99	10/1/99	10,000	0
PXTCO	AP-106	10/1/99	10/1/99	5,000	0
TAL88	AP-106	10/1/99	10/1/99	6,000	0
SPN87	SY-102	10/1/99	10/1/99	7,000	0
ZNL87	SY-102	10/1/99	10/1/99	4,000	0
WCW88	SY-102	10/1/99	10/1/99	43,000	0
IFL96	AW-105	10/1/99	10/1/99	40,000	0
WATER	SY-102	10/1/99	10/1/99	11,000	0
WNW88	SY-102	10/1/99	10/1/99	62,000	0
WATER	AP-106	10/2/99	10/2/99	5,000	0
WATER	AP-106	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	13,000	0
WATER	SY-102	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	17,000	0
AW-106	AW-104	10/20/99	10/20/99	100,200	4
AW-102	AW-106	10/25/99	10/25/99	99,996	4
AW-106	AN-101	10/26/99	10/26/99	159,200	6
AW-102	242-A	10/26/99	10/30/99	937,500	37
242-A	AW-106	10/26/99	10/30/99	361,400	37
242-A	LERF	10/26/99	10/30/99	576,100	0
AP-102	AP-103	10/25/99	10/30/99	1,070,000	0
EVAPF	AP-106	11/1/99	11/1/99	10,000	0

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	11/1/99	11/1/99	12,000	0
WATER	SY-102	11/1/99	11/1/99	10,000	0
WCE88	AP-108	11/1/99	11/1/99	11,000	0
WCW88	SY-102	11/1/99	11/1/99	39,000	0
WNNW88	SY-102	11/1/99	11/1/99	50,000	0
WATER	AP-108	11/1/99	11/1/99	3,000	0
EVAPP	AW-102	11/17/99	11/17/99	35,000	0
AP-107	AW-102	11/25/99	11/30/99	1,110,000	43
WATER	SY-102	12/1/99	12/1/99	10,000	0
WATER	AP-108	12/1/99	12/1/99	1,000	0
WCE88	AP-108	12/1/99	12/1/99	6,000	0
EVAPP	AP-106	12/1/99	12/1/99	10,000	0
WCW88	SY-102	12/1/99	12/1/99	39,000	0
WATER	SY-102	12/1/99	12/1/99	11,000	0
WNNW88	SY-102	12/1/99	12/1/99	43,000	0
AW-102	242-A	11/28/99	12/2/99	1,110,000	40
242-A	AW-106	11/28/99	12/2/99	751,100	40
242-A	LERF	11/28/99	12/2/99	358,800	0
EVAPP	AW-102	12/3/99	12/3/99	35,000	0
AW-106	AN-101	12/25/99	12/28/99	750,000	34
SPN87	SY-102	1/1/00	1/1/00	6,000	0
WATER	SY-102	1/1/00	1/1/00	9,000	0
WCW88	SY-102	1/1/00	1/1/00	26,000	0
WATER	SY-102	1/1/00	1/1/00	9,000	0
WCE88	AP-108	1/1/00	1/1/00	6,000	0
WNNW88	SY-102	1/1/00	1/1/00	37,000	0
WATER	AP-108	1/1/00	1/1/00	1,000	0
EVAPP	AP-106	1/1/00	1/1/00	10,000	0
TAL88	AP-106	1/1/00	1/1/00	6,000	0
WATER	AP-106	1/1/00	1/1/00	4,000	0
34L87	AP-106	1/1/00	1/1/00	10,000	0
WATER	AP-104	1/20/00	1/20/00	35,000	0
SY-102	AP-104	1/25/00	1/27/00	520,000	22
EVAPP	AP-106	2/1/00	2/1/00	10,000	0
WATER	AP-108	2/1/00	2/1/00	1,000	0
WCE88	AP-108	2/1/00	2/1/00	5,000	0
WCW88	SY-102	2/1/00	2/1/00	17,000	0
WATER	SY-102	2/1/00	2/1/00	4,000	0
WNNW88	SY-102	2/1/00	2/1/00	30,000	0
WATER	SY-102	2/1/00	2/1/00	8,000	0
WCE88	AP-108	3/1/00	3/1/00	3,000	0
WATER	AP-108	3/1/00	3/1/00	1,000	0
WATER	SY-102	3/1/00	3/1/00	3,000	0
WCW88	SY-102	3/1/00	3/1/00	13,000	0
EVAPP	AP-106	3/1/00	3/1/00	10,000	0
34L87	AP-106	3/1/00	3/1/00	10,000	0
WATER	AP-106	3/1/00	3/1/00	5,000	0
WNNW88	SY-102	3/1/00	3/1/00	17,000	0
WATER	SY-102	3/1/00	3/1/00	4,000	0
WATER	SY-102	4/1/00	4/1/00	3,000	0
EVAPP	AP-106	4/1/00	4/1/00	10,000	0
WATER	SY-102	4/1/00	4/1/00	2,000	0
TAL88	AP-106	4/1/00	4/1/00	6,000	0
SPN87	SY-102	4/1/00	4/1/00	6,000	0
WNNW88	SY-102	4/1/00	4/1/00	13,000	0
WATER	AP-108	4/1/00	4/1/00	1,000	0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCW88	SY-102	4/1/00	4/1/00	9,000	0
WCE88	AP-108	4/1/00	4/1/00	3,000	0
WATER	AP-108	5/1/00	5/1/00	1,000	0
WATER	AP-106	5/1/00	5/1/00	4,000	0
WCE88	AP-108	5/1/00	5/1/00	3,000	0
34L87	AP-106	5/1/00	5/1/00	10,000	0
EVAPF	AP-106	5/1/00	5/1/00	10,000	0
WATER	SY-102	5/1/00	5/1/00	3,000	0
WNW88	SY-102	5/1/00	5/1/00	11,000	0
WCW88	SY-102	5/1/00	5/1/00	6,000	0
WATER	SY-102	5/1/00	5/1/00	1,000	0
WATER	AP-108	6/1/00	6/1/00	1,000	0
EVAPF	AP-106	6/1/00	6/1/00	10,000	0
WATER	SY-102	6/1/00	6/1/00	1,000	0
WNW88	SY-102	6/1/00	6/1/00	4,000	0
WCE88	AP-108	6/1/00	6/1/00	3,000	0
34L87	AP-106	7/1/00	7/1/00	10,000	0
WATER	AP-106	7/1/00	7/1/00	4,000	0
SPN87	SY-102	7/1/00	7/1/00	6,000	0
EVAPF	AP-106	7/1/00	7/1/00	10,000	0
TAL88	AP-106	7/1/00	7/1/00	5,000	0
WATER	AP-108	7/1/00	7/1/00	1,000	0
WCE88	AP-108	7/1/00	7/1/00	3,000	0
WATER	SY-102	7/1/00	7/1/00	1,000	0
WNW88	SY-102	7/1/00	7/1/00	4,000	0
AP-104	AW-102	7/25/00	7/30/00	1,110,000	43
WCE88	AP-108	8/1/00	8/1/00	2,000	0
EVAPF	AP-106	8/1/00	8/1/00	10,000	0
WNW88	SY-102	8/1/00	8/1/00	4,000	0
WATER	SY-102	8/1/00	8/1/00	1,000	0
AW-102	242-A	7/28/00	8/2/00	1,145,000	39
242-A	AW-106	7/28/00	8/2/00	802,300	39
242-A	LRF	7/28/00	8/2/00	342,600	0
EVAPF	AW-102	8/3/00	8/3/00	35,000	0
AZ-101	AY-101	8/17/00	8/20/00	685,000	0
AZ-101	AP-107	8/20/00	8/20/00	0	0
WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0
WCE88	AP-108	9/1/00	9/1/00	1,000	0
EVAPF	AP-106	9/1/00	9/1/00	10,000	0
AW-106	AP-107	9/25/00	9/29/00	804,000	35
PXTCO	AP-106	10/1/00	10/1/00	5,000	0
WESF	AP-106	10/1/00	10/1/00	5,000	0
TNS88	AP-106	10/1/00	10/1/00	750	250
INS96	AW-105	10/1/00	10/1/00	13,502	4,498
TAL88	AP-106	10/1/00	10/1/00	23,000	0
34L87	AP-106	10/1/00	10/1/00	50,000	0
34L87	AP-106	10/1/00	10/1/00	7,000	0
ZNL87	SY-102	10/1/00	10/1/00	4,000	0
SPN87	SY-102	10/1/00	10/1/00	25,000	0
EVAPF	AP-106	10/1/00	10/1/00	120,000	0
WASH-WATER	AP-104	10/1/00	10/2/00	200,000	0
WATER	AW-105	10/2/00	10/2/00	7,000	0
JKL96	AW-105	10/1/00	10/2/00	302,000	0
WATER	AW-105	10/2/00	10/2/00	132,000	0
WATER	AP-106	10/2/00	10/2/00	5,000	0
WATER	AP-106	10/2/00	10/3/00	22,000	0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-106	10/3/00	10/3/00	3,000	0
WATER	SY-102	10/3/00	10/3/00	1,000	0
WATER	SY-102	10/3/00	10/3/00	5,000	0
EVAPF	AW-102	10/4/00	10/4/00	50,000	0
AP-106	AW-102	10/2/00	10/4/00	474,000	16
AP-106	AW-102	10/5/00	10/5/00	10,000	0
AP-106	AW-102	10/6/00	10/6/00	71,998	2
AP-106	AW-102	10/7/00	10/7/00	180,300	6
AW-105	AW-102	10/6/00	10/8/00	414,000	14
AP-106	AW-102	10/8/00	10/8/00	0	0
AW-105	AW-102	10/9/00	10/10/00	213,200	7
AZ-101	AP-106	10/9/00	10/10/00	143,200	0
WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0
AW-102	242-A	10/5/00	10/12/00	1,483,000	52
242-A	AW-106	10/5/00	10/12/00	92,234	52
242-A	LERF	10/5/00	10/12/00	1,391,000	0
AP-104	AP-102	10/15/00	10/16/00	200,000	1
AW-106	AP-107	10/25/00	10/25/00	110,000	5
EVAPF	AW-102	11/3/00	11/3/00	35,000	0
AZ-101	AP-106	11/30/00	12/1/00	140,200	0
WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0
AZ-101	AP-106	1/21/01	1/21/01	142,900	0
WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0
AP-102	AP-106	2/15/01	2/16/01	200,500	1
AN-105	AP-102	3/17/01	3/20/01	542,400	7,895
LERF	AN-105-PUMP	3/17/01	3/20/01	154,100	0
AN-105	AP-102	3/17/01	3/20/01	686,500	294
AP-108	AP-106	3/22/01	3/23/01	356,500	8
AN-105	AP-104	3/21/01	3/24/01	542,400	7,895
LERF	AN-105-PUMP	3/21/01	3/24/01	154,100	0
AN-105	AP-104	3/21/01	3/24/01	686,500	294
AP-106	AW-102	3/23/01	3/27/01	882,400	0
WASH-WATER	AP-108	4/7/01	4/8/01	200,000	0
AP-108	AP-106	4/21/01	4/21/01	200,000	1
WATER	AW-102	5/1/01	5/1/01	35,000	0
EVAPF	AW-102	5/3/01	5/3/01	35,000	0
AW-106	AW-105	7/1/01	7/2/01	283,200	13
AP-102	AW-108	7/10/01	7/14/01	686,500	282
AP-107	AN-105	9/1/01	9/4/01	914,500	40
AW-102	242-A	9/25/01	9/30/01	987,300	37
242-A	AW-106	9/25/01	9/30/01	633,300	37
242-A	LERF	9/25/01	9/30/01	354,000	0
WESF	AP-106	10/1/01	10/1/01	5,000	0
ZNL87	SY-102	10/1/01	10/1/01	4,000	0
TNS88	AP-106	10/1/01	10/1/01	750	250
TAL88	AP-106	10/1/01	10/1/01	23,000	0
SPN87	SY-102	10/1/01	10/1/01	25,000	0
34L87	AP-106	10/1/01	10/1/01	50,000	0
WATER	AP-106	10/1/01	10/1/01	35,000	0
EVAPF	AP-106	10/1/01	10/1/01	120,000	0
WATER	SY-102	10/2/01	10/2/01	5,000	0
WATER	AP-106	10/2/01	10/2/01	5,000	0
WATER	AP-106	10/2/01	10/2/01	22,000	0
AW-106	AW-102	9/30/01	10/3/01	633,200	25
AN-104	AP-102	10/1/01	10/4/01	502,200	12,513
LERF	AN-104-PUMP	10/1/01	10/4/01	200,800	0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AN-104	AP-102	10/1/01	10/4/01	684,700	702
AW-102	242-A	10/17/01	10/20/01	633,200	25
242-A	AW-106	10/17/01	10/20/01	405,200	25
242-A	LERF	10/17/01	10/20/01	228,000	0
AW-106	AW-102	10/20/01	10/22/01	405,200	18
EVAPP	AW-102	11/3/01	11/3/01	35,000	0
AW-102	242-A	11/5/01	11/7/01	440,300	19
242-A	AW-106	11/5/01	11/7/01	296,100	19
242-A	LERF	11/5/01	11/7/01	144,200	0
AZ-102	AY-101	11/14/01	11/15/01	204,000	0
AZ-102	AP-107	11/16/01	11/16/01	181,800	0
WASH-WATER	AZ-102	11/17/01	11/18/01	213,000	0
AZ-102	AP-106	1/6/02	1/6/02	127,700	0
WASH-WATER	AZ-102	1/8/02	1/9/02	213,000	0
AZ-102	AP-106	2/27/02	2/28/02	210,300	0
WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0
AP-106	AW-102	2/28/02	3/4/02	897,800	0
AZ-102	AP-106	4/20/02	4/21/02	211,800	0
WASH-WATER	AZ-102	4/22/02	4/23/02	213,000	0
AZ-101	PHILW FEED TANK	5/17/02	5/17/02	134,300	5,079
AZ-102	AP-106	6/12/02	6/13/02	212,500	0
WASH-WATER	AZ-102	6/14/02	6/14/02	110,000	0
AW-106	AW-105	7/1/02	7/2/02	296,100	14
AW-102	242-A	9/2/02	9/6/02	898,000	31
242-A	AW-106	9/2/02	9/6/02	574,000	31
242-A	LERF	9/2/02	9/6/02	324,000	0
AW-106	AW-102	9/7/02	9/9/02	573,900	21
AW-102	242-A	9/24/02	9/26/02	573,800	21
242-A	AW-106	9/24/02	9/26/02	367,800	21
242-A	LERF	9/24/02	9/26/02	206,000	0
AW-106	AW-102	9/26/02	9/28/02	367,700	14
ZNL87	SY-102	10/1/02	10/1/02	3,000	0
WESF	AP-106	10/1/02	10/1/02	5,000	0
TNS88	AP-106	10/1/02	10/1/02	750	250
SPN87	SY-102	10/1/02	10/1/02	25,000	0
TAL88	AP-106	10/1/02	10/1/02	24,000	0
WATER	AP-106	10/1/02	10/1/02	35,000	0
34L87	AP-106	10/1/02	10/1/02	50,000	0
EVAPP	AP-106	10/1/02	10/1/02	120,000	0
WATER	AP-106	10/2/02	10/2/02	5,000	0
WATER	AP-106	10/2/02	10/2/02	22,000	0
WATER	SY-102	10/2/02	10/2/02	1,000	0
WATER	SY-102	10/2/02	10/2/02	5,000	0
EVAPP	AW-102	10/4/02	10/4/02	50,000	0
AW-102	242-A	10/12/02	10/14/02	417,800	16
242-A	AW-106	10/12/02	10/14/02	267,800	16
242-A	LERF	10/12/02	10/14/02	150,000	0
AW-106	AW-102	10/14/02	10/16/02	267,700	11
AW-102	242-A	10/30/02	10/31/02	267,800	10
242-A	AW-106	10/30/02	10/31/02	171,800	10
242-A	LERF	10/30/02	10/31/02	96,000	0
AW-106	AW-102	10/31/02	11/1/02	171,800	7
EVAPP	AW-102	11/3/02	11/3/02	35,000	0
AW-102	AP-106	11/2/02	11/3/02	206,900	9
AP-106	AW-102	11/3/02	11/8/02	889,900	0
AP-104	AP-108	1/5/03	1/9/03	686,500	282

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AN-104	AP-104	1/10/03	1/13/03	502,200	12,513
LERF	AN-104-PUMP	1/10/03	1/13/03	200,800	0
AN-104	AP-104	1/10/03	1/13/03	684,700	702
AW-105	AN-104	2/1/03	2/3/03	579,300	26
PIHLW FEED TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079
AZ-101	PIHLW FEED TANK	2/21/03	2/21/03	134,300	5,079
AY-102	AZ-101	2/24/03	3/1/03	819,600	16,032
RETURN 2	AP-107	4/3/03	4/3/03	8,671	331
AW-102	242-A	5/8/03	5/12/03	889,900	31
242-A	AW-106	5/8/03	5/12/03	571,900	31
242-A	LERF	5/8/03	5/12/03	318,000	0
AW-106	AW-102	5/13/03	5/16/03	571,700	21
AW-102	242-A	5/30/03	6/2/03	571,700	21
242-A	AW-106	5/30/03	6/2/03	367,300	21
242-A	LERF	5/30/03	6/2/03	204,400	0
AW-106	AW-102	6/2/03	6/4/03	367,200	14
AW-102	242-A	6/18/03	6/20/03	367,300	14
242-A	AW-106	6/18/03	6/20/03	235,300	14
242-A	LERF	6/18/03	6/20/03	132,000	0
AW-106	AW-102	6/20/03	6/21/03	235,300	10
AW-102	242-A	7/5/03	7/6/03	235,300	10
242-A	AW-106	7/5/03	7/6/03	151,300	10
242-A	LERF	7/5/03	7/6/03	84,068	0
AW-106	AW-102	7/6/03	7/7/03	151,200	7
AW-102	AP-106	7/8/03	7/9/03	151,400	7
AP-102	AP-108	9/19/03	9/22/03	684,700	686
AW-101	AP-102	9/23/03	9/27/03	537,200	13,013
LERF	AW-101-PUMP	9/23/03	9/27/03	308,100	0
AW-101	AP-102	9/23/03	9/27/03	845,400	13,013
34L87	AP-106	10/1/03	10/1/03	7,000	0
TNS88	AP-106	10/1/03	10/1/03	750	250
TAL88	AP-106	10/1/03	10/1/03	24,000	0
WESF	AP-106	10/1/03	10/1/03	5,000	0
ZNL87	SY-102	10/1/03	10/1/03	3,000	0
SPN87	SY-102	10/1/03	10/1/03	25,000	0
34L87	AP-106	10/1/03	10/1/03	50,000	0
WATER	AP-106	10/1/03	10/1/03	35,000	0
EVAPP	AP-106	10/1/03	10/1/03	120,000	0
WATER	AP-106	10/2/03	10/2/03	3,000	0
WATER	AP-106	10/2/03	10/2/03	22,000	0
WATER	AP-106	10/2/03	10/2/03	5,000	0
WATER	SY-102	10/2/03	10/2/03	5,000	0
AZ-101	AP-106	10/28/03	10/31/03	622,700	0
WASH-WATER	AZ-101	10/31/03	11/2/03	324,000	0
EVAPP	AW-102	11/3/03	11/3/03	35,000	0
AP-106	AW-102	10/31/03	11/5/03	918,100	0
PIHLW FEED TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079
AZ-102	PIHLW FEED TANK	11/14/03	11/14/03	123,900	5,202
AZ-101	AP-106	12/21/03	12/22/03	320,000	0
WASH-WATER	AZ-101	12/24/03	12/25/03	324,000	0
RETURN 2	AP-107	2/2/04	2/2/04	8,670	331
AZ-101	AP-106	2/12/04	2/14/04	322,300	0
WASH-WATER	AZ-101	2/15/04	2/17/04	433,600	0
SX-113	SY-103	12/31/03	4/6/04	10,322	399
AW-102	242-A	5/4/04	5/9/04	953,000	34
242-A	AW-106	5/4/04	5/9/04	611,000	34

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	LERF	5/4/04	5/9/04	342,000	0
AW-106	AW-102	5/9/04	5/12/04	610,900	23
AW-102	242-A	5/26/04	5/29/04	610,900	23
242-A	AW-106	5/26/04	5/29/04	390,700	23
242-A	LERF	5/26/04	5/29/04	220,200	0
AW-106	AW-102	5/29/04	5/31/04	390,600	16
AP-104	AP-108	6/12/04	6/15/04	684,700	686
AW-102	242-A	6/14/04	6/16/04	390,700	15
242-A	AW-106	6/14/04	6/16/04	250,400	15
242-A	LERF	6/14/04	6/16/04	140,300	0
AW-106	AW-102	6/16/04	6/17/04	250,400	11
AW-101	AP-104	6/16/04	6/20/04	537,200	13,013
LERF	AW-101-PUMP	6/16/04	6/20/04	308,100	0
AW-101	AP-104	6/16/04	6/20/04	845,400	13,013
AW-102	242-A	7/1/04	7/3/04	250,400	11
242-A	AW-106	7/1/04	7/3/04	170,500	11
242-A	LERF	7/1/04	7/3/04	79,918	0
AN-104	AW-101	7/4/04	7/7/04	572,700	26
PIHLW FEED TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202
AZ-102	PIHLW FEED TANK	8/7/04	8/8/04	123,900	5,202
RETURN 2	AP-107	8/31/04	8/31/04	8,672	332
C-104	AY-102	8/1/04	9/8/04	279,100	9,724
TAL88	AP-106	10/1/04	10/1/04	2,000	0
WESF	AP-106	10/1/04	10/1/04	5,000	0
TNS88	AP-106	10/1/04	10/1/04	750	250
ZNL87	SY-102	10/1/04	10/1/04	3,000	0
34L87	AP-106	10/1/04	10/1/04	50,000	0
TAL88	AP-106	10/1/04	10/1/04	22,000	0
SPN87	SY-102	10/1/04	10/1/04	23,000	0
WATER	AP-106	10/1/04	10/1/04	35,000	0
SPN87	SY-102	10/1/04	10/1/04	2,000	0
EVAPP	AP-106	10/1/04	10/1/04	120,000	0
1FL96	AW-105	10/1/04	10/2/04	200,000	0
WATER	SY-102	10/2/04	10/2/04	5,000	0
WATER	AW-105	10/2/04	10/2/04	88,000	0
WATER	AP-106	10/2/04	10/2/04	22,000	0
WATER	AP-106	10/2/04	10/2/04	4,000	0
WATER	SY-102	10/2/04	10/2/04	1,000	0
WATER	AP-106	10/2/04	10/3/04	1,000	0
EVAPP	AW-102	10/4/04	10/4/04	50,000	0
AP-106	AW-102	10/1/04	10/5/04	917,900	251
EVAPP	AW-102	11/3/04	11/3/04	35,000	0
SY-102	AP-106	11/15/04	11/17/04	539,800	21
AX-103	AN-104	8/7/04	12/24/04	310,200	2,846
RETURN 2	AP-107	1/18/05	1/18/05	8,672	332
C-103	AN-104	12/24/04	3/9/05	271,800	10,423
AP-102	AP-108	3/6/05	3/10/05	740,300	1,581
WASH-WATER	AP-102	3/25/05	3/25/05	136,900	0
AP-102	AP-106	4/8/05	4/8/05	243,100	10,337
AW-102	242-A	4/5/05	4/10/05	1,000,000	34
242-A	AW-106	4/5/05	4/10/05	640,000	34
242-A	LERF	4/5/05	4/10/05	360,000	0
AY-101	AP-102	4/9/05	4/10/05	283,600	12
AW-106	AW-102	4/11/05	4/15/05	810,400	30
PIHLW FEED TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202
AZ-101	PIHLW FEED TANK	5/2/05	5/2/05	127,200	3,269

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	242-A	4/29/05	5/3/05	810,500	30
242-A	AW-106	4/29/05	5/3/05	519,600	30
242-A	LERF	4/29/05	5/3/05	290,900	0
AW-106	AW-102	5/3/05	5/5/05	519,500	21
AW-102	242-A	5/19/05	5/22/05	519,600	20
242-A	AW-106	5/19/05	5/22/05	333,600	20
242-A	LERF	5/19/05	5/22/05	186,000	0
AW-106	AW-102	5/22/05	5/24/05	333,600	14
RETURN 2	AP-107	6/2/05	6/2/05	8,675	331
AW-102	242-A	6/7/05	6/8/05	333,700	14
242-A	AW-106	6/7/05	6/8/05	224,900	14
242-A	LERF	6/7/05	6/8/05	108,700	0
AW-106	AW-101	6/8/05	6/10/05	224,900	10
AP-106	AW-102	6/9/05	6/13/05	786,000	0
A-102	AN-104	3/9/05	6/28/05	100,600	744
AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360
AN-104	AN-105	8/16/05	8/17/05	197,000	5,022
AN-104	AW-104	8/17/05	8/18/05	33,797	861
AN-104	AW-103	8/18/05	8/18/05	3,901	99
AN-104	AP-105	8/18/05	8/18/05	3,901	99
AN-104	AP-103	8/18/05	8/18/05	43,402	1,104
AN-104	AP-101	8/18/05	8/18/05	0	0
AN-104	AN-101	8/18/05	8/19/05	169,500	4,307
AN-104	AN-106	8/19/05	8/19/05	3,901	99
AN-104	AW-105	8/19/05	8/21/05	452,700	11,488
TNS88	AP-106	10/1/05	10/1/05	750	250
WESF	AP-106	10/1/05	10/1/05	5,000	0
ZNL87	SY-102	10/1/05	10/1/05	3,000	0
TAL88	AP-106	10/1/05	10/1/05	24,000	0
SPN87	SY-102	10/1/05	10/1/05	25,000	0
34L87	AP-106	10/1/05	10/1/05	50,000	0
WATER	AP-106	10/1/05	10/1/05	35,000	0
EVAPF	AP-106	10/1/05	10/1/05	120,000	0
WATER	SY-102	10/2/05	10/2/05	1,000	0
WATER	AP-106	10/2/05	10/2/05	5,000	0
WATER	SY-102	10/2/05	10/2/05	5,000	0
WATER	AP-106	10/2/05	10/2/05	22,000	0
RETURN 2	AP-107	10/10/05	10/10/05	8,679	330
AW-102	242-A	10/10/05	10/14/05	786,100	30
242-A	AW-106	10/10/05	10/14/05	504,100	30
242-A	LERF	10/10/05	10/14/05	282,000	0
AP-104	AP-108	10/10/05	10/14/05	740,300	1,581
AW-106	AW-102	10/14/05	10/16/05	504,000	21
WASH-WATER	AP-104	10/29/05	10/29/05	136,900	0
AW-102	242-A	10/30/05	11/2/05	504,200	21
242-A	AW-106	10/30/05	11/2/05	324,100	21
242-A	LERF	10/30/05	11/2/05	180,100	0
EVAPF	AW-102	11/3/05	11/3/05	35,000	0
AW-106	AW-101	11/2/05	11/4/05	318,900	15
AP-104	AP-106	11/12/05	11/12/05	243,100	10,337
AN-107	AP-104	11/13/05	11/15/05	481,700	22
LERF	AN-107-PUMP	11/13/05	11/15/05	72,259	0
AN-107	AP-104	11/13/05	11/15/05	554,000	22
PIHLW FEED TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269
AZ-101	PIHLW FEED TANK	11/16/05	11/17/05	127,200	3,269
RETURN 2	AP-107	11/29/05	11/30/05	8,677	330

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
RETURN 2	AP-107	1/19/06	1/19/06	8,677	330
RETURN 2	AP-107	3/10/06	3/10/06	8,677	330
RETURN 2	AP-107	4/29/06	4/29/06	8,677	330
PIHLW FEED TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269
AZ-101	PIHLW FEED TANK	6/2/06	6/3/06	127,200	3,269
AP-108	LAW-CONTRACTOR-2	6/1/02	6/12/06	4,223,000	5,042
AP-102	AP-108	6/12/06	6/13/06	277,300	552
AN-107	AP-102	6/14/06	6/16/06	481,700	22
LERF	AN-107-PUMP	6/14/06	6/16/06	72,260	0
AN-107	AP-102	6/14/06	6/16/06	554,000	22
RETURN 2	AP-107	6/18/06	6/18/06	8,683	330
AZ-102	AP-106	6/23/06	6/24/06	159,500	0
WASH-WATER	AZ-102	6/24/06	6/26/06	324,000	0
RETURN 2	AP-107	7/24/06	7/24/06	8,678	328
AP-108	LAW-CONTRACTOR-2	6/14/06	8/12/06	277,300	555
AP-104	AP-108	8/12/06	8/13/06	171,100	337
AP-106	AW-102	8/16/06	8/21/06	846,800	0
AZ-102	AP-106	8/14/06	8/21/06	320,100	0
WASH-WATER	AZ-102	8/22/06	8/24/06	324,000	0
RETURN 2	AP-107	9/8/06	9/8/06	8,684	329
AP-104	AP-108	9/9/06	9/11/06	381,800	753
AN-102	AP-104	9/12/06	9/15/06	443,500	21
LERF	AN-102-PUMP	9/12/06	9/15/06	266,100	0
AN-102	AP-104	9/12/06	9/15/06	709,700	21
AN-104	AN-107	9/16/06	9/16/06	213,900	5,416
TNS88	AP-106	10/1/06	10/1/06	750	250
34L87	AP-106	10/1/06	10/1/06	7,000	0
WESF	AP-106	10/1/06	10/1/06	5,000	0
TAL88	AP-106	10/1/06	10/1/06	25,000	0
SPN87	SY-102	10/1/06	10/1/06	25,000	0
34L87	AP-106	10/1/06	10/1/06	50,000	0
WATER	AP-106	10/1/06	10/1/06	35,000	0
EVAPF	AP-106	10/1/06	10/1/06	120,000	0
WATER	AP-106	10/2/06	10/2/06	5,000	0
WATER	AP-106	10/2/06	10/2/06	22,000	0
WATER	SY-102	10/2/06	10/2/06	5,000	0
WATER	AP-106	10/2/06	10/2/06	3,000	0
EVAPF	AW-102	10/4/06	10/4/06	50,000	0
AZ-102	AP-106	10/12/06	10/13/06	322,700	0
WASH-WATER	AZ-102	10/15/06	10/15/06	150,500	0
RETURN 2	AP-107	11/2/06	11/2/06	8,683	330
EVAPF	AW-102	11/3/06	11/3/06	35,000	0
C-105	AN-104	6/28/05	11/13/06	827,500	31,875
PIHLW FEED TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269
AZ-101	PIHLW FEED TANK	12/18/06	12/18/06	127,200	3,269
RETURN 2	AP-107	12/28/06	12/28/06	8,683	330
AW-102	242-A	12/26/06	12/31/06	967,000	34
242-A	AW-106	12/26/06	12/31/06	619,000	34
242-A	LERF	12/26/06	12/31/06	348,000	0
AW-106	AW-102	12/31/06	1/3/07	624,100	23
AW-102	242-A	1/17/07	1/20/07	624,200	23
242-A	AW-106	1/17/07	1/20/07	400,200	23
242-A	LERF	1/17/07	1/20/07	224,000	0
AW-106	AW-102	1/20/07	1/22/07	400,100	15
AP-102	AP-108	1/20/07	1/23/07	559,200	575
AN-103	AP-102	1/24/07	1/27/07	436,600	28,133

HNF-2321
Revision 0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
LERF	AN-103-PUMP	1/24/07	1/27/07	264,900	0
AN-103	AP-102	1/24/07	1/27/07	738,300	549
AW-102	242-A	2/6/07	2/8/07	400,200	15
242-A	AW-106	2/6/07	2/8/07	256,200	15
242-A	LERF	2/6/07	2/8/07	144,000	0
AW-106	AW-102	2/8/07	2/9/07	256,200	10
A-104	AN-104	11/13/06	2/22/07	29,827	832
RETURN 2	AP-107	2/23/07	2/24/07	8,673	330
AW-102	242-A	2/23/07	2/24/07	256,300	10
242-A	AW-106	2/23/07	2/24/07	164,300	10
242-A	LERF	2/23/07	2/24/07	91,975	0
AW-106	AW-102	2/24/07	2/25/07	164,300	7
AW-102	AP-106	2/26/07	2/27/07	164,400	7
C-204	AN-104	2/22/07	3/1/07	3,775	55
AP-106	AW-102	2/27/07	3/3/07	776,900	0
C-201	AN-104	3/1/07	3/7/07	2,464	59
AX-104	AN-104	3/7/07	4/12/07	18,516	572
RETURN 2	AP-107	4/23/07	4/23/07	8,672	330
RETURN 2	AP-107	6/20/07	6/20/07	8,672	330
PIHLW FEED TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269
AZ-101	PIHLW FEED TANK	7/4/07	7/5/07	127,200	3,269
AX-102	AN-104	4/12/07	7/31/07	87,597	897
AP-104	AP-108	8/3/07	8/7/07	709,600	72
AN-103	AP-104	8/8/07	8/11/07	436,600	28,133
LERF	AN-103-PUMP	8/8/07	8/11/07	264,900	0
AN-103	AP-104	8/8/07	8/11/07	738,300	549
RETURN 2	AP-107	8/27/07	8/27/07	8,675	330
AW-102	242-A	8/31/07	9/4/07	776,800	28
242-A	AW-106	8/31/07	9/4/07	497,600	28
242-A	LERF	8/31/07	9/4/07	279,200	0
AW-106	AW-102	9/4/07	9/7/07	497,500	19
AW-102	242-A	9/21/07	9/23/07	497,600	19
242-A	AW-106	9/21/07	9/23/07	317,600	19
242-A	LERF	9/21/07	9/23/07	180,000	0
AW-106	AW-102	9/23/07	9/25/07	317,600	13
TNS88	AP-106	10/1/07	10/1/07	750	250
WESF	AP-106	10/1/07	10/1/07	5,000	0
SPN87	SY-102	10/1/07	10/1/07	25,000	0
TAL88	AP-106	10/1/07	10/1/07	25,000	0
34L87	AP-106	10/1/07	10/1/07	50,000	0
WATER	AP-106	10/1/07	10/1/07	35,000	0
EVAPF	AP-106	10/1/07	10/1/07	120,000	0
WATER	AP-106	10/2/07	10/2/07	5,000	0
WATER	AP-106	10/2/07	10/2/07	22,000	0
WATER	SY-102	10/2/07	10/2/07	5,000	0
AW-102	242-A	10/9/07	10/11/07	317,600	13
242-A	AW-106	10/9/07	10/11/07	203,600	13
242-A	LERF	10/9/07	10/11/07	114,000	0
AW-106	AW-102	10/11/07	10/12/07	203,600	9
AW-102	AP-106	10/13/07	10/14/07	203,800	9
EVAPF	AW-102	11/3/07	11/3/07	35,000	0
AN-104	AN-107	11/4/07	11/7/07	750,600	14,520
AN-104	AN-102	11/7/07	11/9/07	349,400	6,751
SY-101	AN-103	11/9/07	11/13/07	1,105,000	11,018
AN-103	AN-102	11/14/07	11/15/07	150,700	1,688
RETURN 2	AP-107	12/3/07	12/3/07	8,675	329

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
PIHLW FEED TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269
AZ-102	PIHLW FEED TANK	1/18/08	1/19/08	137,700	4,774
RETURN 2	AP-107	3/11/08	3/11/08	8,675	329
AP-108	LAW-CONTRACTOR-2	8/14/06	4/10/08	1,822,000	1,786
AP-102	AP-108	4/10/08	4/14/08	738,300	557
S-103	SY-101	12/31/03	5/6/08	712,300	1,011
RETURN 2	AP-107	8/17/08	8/18/08	8,672	330
TNS88	AP-106	10/1/08	10/1/08	750	250
WESF	AP-106	10/1/08	10/1/08	5,000	0
TAL88	AP-106	10/1/08	10/1/08	25,000	0
SPN87	SY-102	10/1/08	10/1/08	25,000	0
34L87	AP-106	10/1/08	10/1/08	50,000	0
WATER	AP-106	10/1/08	10/1/08	35,000	0
EVAPF	AP-106	10/1/08	10/1/08	120,000	0
WATER	AP-106	10/2/08	10/2/08	5,000	0
WATER	AP-106	10/2/08	10/2/08	22,000	0
WATER	SY-102	10/2/08	10/2/08	5,000	0
EVAPF	AW-102	10/4/08	10/4/08	50,000	0
AP-106	AW-102	10/1/08	10/5/08	723,500	0
EVAPF	AW-102	11/3/08	11/3/08	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774
AZ-102	PIHLW FEED TANK	12/22/08	12/22/08	137,700	4,774
AP-104	AP-108	1/5/09	1/9/09	738,400	532
U-202	UA-2	1/3/09	1/10/09	27,411	1,061
U-203	UA-2	1/10/09	1/16/09	13,895	537
RETURN 2	AP-107	2/16/09	2/16/09	8,670	331
U-110	UA-2	1/16/09	3/10/09	99,290	4,252
UA-2	SY-102	3/11/09	3/12/09	173,900	5,847
AW-102	242-A	4/4/09	4/8/09	843,400	30
242-A	AW-106	4/4/09	4/8/09	540,700	30
242-A	LERF	4/4/09	4/8/09	302,800	0
AW-106	AW-102	4/9/09	4/12/09	540,500	20
AW-102	242-A	4/26/09	4/29/09	540,700	20
242-A	AW-106	4/26/09	4/29/09	346,600	20
242-A	LERF	4/26/09	4/29/09	194,100	0
AW-106	AW-102	4/29/09	4/30/09	346,500	14
AW-102	242-A	5/15/09	5/16/09	346,600	14
242-A	AW-106	5/15/09	5/16/09	221,100	14
242-A	LERF	5/15/09	5/16/09	125,500	0
AW-106	AW-102	5/16/09	5/17/09	221,100	10
AW-102	AP-106	5/19/09	5/20/09	221,200	9
U-110	UA-1	3/10/09	5/27/09	143,800	6,160
UA-1	SY-102	5/27/09	5/28/09	186,800	6,157
U-110	UA-2	5/27/09	5/30/09	4,829	207
U-101	UA-2	5/30/09	7/29/09	27,955	668
RETURN 2	AP-107	8/17/09	8/17/09	8,670	331
TNS88	AP-106	10/1/09	10/1/09	750	250
WESF	AP-106	10/1/09	10/1/09	5,000	0
SPN87	SY-102	10/1/09	10/1/09	25,000	0
TAL88	AP-106	10/1/09	10/1/09	26,000	0
WATER	AP-106	10/1/09	10/1/09	35,000	0
34L87	AP-106	10/1/09	10/1/09	50,000	0
34L87	AP-106	10/1/09	10/1/09	7,000	0
EVAPF	AP-106	10/1/09	10/1/09	120,000	0
WATER	AP-106	10/2/09	10/2/09	3,000	0
WATER	AP-106	10/2/09	10/2/09	22,000	0

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-106	10/2/09	10/2/09	5,000	0
WATER	SY-102	10/2/09	10/2/09	5,000	0
EVAPF	AW-102	11/3/09	11/3/09	35,000	0
U-104	UA-2	7/29/09	11/9/09	50,908	1,221
PIHLW FEED TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774
AP-108	LAW-CONTRACTOR-2	4/14/08	11/28/09	1,477,000	1,076
RETURN 1	AP-107	11/29/09	11/29/09	0	0
RETURN 2	AP-107	11/29/09	11/29/09	4,912	188
U-112	UA-2	11/9/09	12/4/09	58,521	2,330
UA-2	SY-102	12/5/09	12/6/09	154,400	4,426
AP-107	AZ-101	12/9/09	12/11/09	395,500	7,596
AN-103	AP-107	12/19/09	12/23/09	954,500	10,690
AN-104	AP-107	12/23/09	12/24/09	150,900	481
SY-101	AN-103	12/23/09	12/27/09	1,115,000	1,877
U-112	UA-1	12/4/09	1/17/10	102,000	4,061
U-204	UA-1	1/17/10	1/23/10	13,004	503
U-201	UA-1	1/23/10	1/27/10	13,912	538
UA-1	SY-102	1/27/10	1/28/10	146,500	5,102
U-201	UA-2	1/27/10	1/30/10	13,499	522
U-106	UA-2	1/30/10	3/1/10	134,400	338
U-106	UA-1	3/1/10	4/4/10	149,500	376
S-105	SY-101	5/6/08	7/18/10	1,518,000	2,459
TNS88	AP-106	10/1/10	10/1/10	750	250
WESF	AP-106	10/1/10	10/1/10	5,000	0
SPN87	SY-102	10/1/10	10/1/10	25,000	0
34L87	AP-106	10/1/10	10/1/10	50,000	0
WATER	AP-106	10/1/10	10/1/10	35,000	0
WATER	AP-106	10/1/10	10/1/10	25,000	0
TAL88	AP-106	10/1/10	10/1/10	26,000	0
EVAPF	AP-106	10/1/10	10/1/10	120,000	0
WATER	AP-106	10/2/10	10/2/10	5,000	0
WATER	SY-102	10/2/10	10/2/10	5,000	0
WATER	AP-106	10/2/10	10/2/10	22,000	0
EVAPF	AW-102	10/4/10	10/4/10	50,000	0
AP-106	AW-102	10/1/10	10/5/10	778,300	0
EVAPF	AW-102	11/3/10	11/3/10	35,000	0
WATER	AP-106	1/1/11	1/1/11	25,000	0
BY-110	BA-3	1/3/11	2/8/11	147,400	2,633
TX-109	TA-5	1/3/11	2/9/11	144,100	5,925
TY-101	TA-4	1/3/11	2/22/11	146,500	3,494
T-106	TA-6	1/3/11	3/2/11	74,648	2,929
B-112	BA-1	1/3/11	3/8/11	75,213	1,083
BY-110	BA-4	2/8/11	3/16/11	147,400	2,633
TX-109	TA-3	2/9/11	3/19/11	144,100	5,925
T-101	TA-6	3/2/11	3/25/11	61,377	2,346
WATER	AP-106	4/1/11	4/1/11	25,000	0
BX-102	BA-2	1/3/11	4/4/11	52,548	2,443
B-111	BA-1	3/8/11	4/9/11	72,630	2,383
AW-102	242-A	4/5/11	4/9/11	898,300	32
242-A	AW-106	4/5/11	4/9/11	574,300	32
242-A	LERF	4/5/11	4/9/11	324,000	0
AW-106	AW-102	4/10/11	4/13/11	574,100	22
TY-101	TA-2	2/22/11	4/13/11	146,500	3,494
BY-110	BA-5	3/16/11	4/21/11	147,400	2,633
TX-109	TA-1	3/19/11	4/26/11	144,100	5,925
AW-102	242-A	4/27/11	4/30/11	574,300	22

Table A.4-1. Complete Transfer List for Case 4.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	4/27/11	4/30/11	368,200	22
242-A	LERF	4/27/11	4/30/11	206,100	0
AW-106	AW-102	4/30/11	5/1/11	368,100	15
BX-112	BA-2	4/4/11	5/2/11	67,370	2,937
AW-102	242-A	5/15/11	5/17/11	368,200	15
242-A	AW-106	5/15/11	5/17/11	236,200	15
242-A	LERF	5/15/11	5/17/11	132,000	0
AW-106	AW-102	5/17/11	5/19/11	236,200	10
BA-3	AP-108	6/1/11	6/2/11	155,600	2,631
BA-4	AP-108	6/2/11	6/2/11	155,600	2,631
AW-102	242-A	6/2/11	6/3/11	236,200	10
242-A	AW-106	6/2/11	6/3/11	164,800	10
242-A	LERF	6/2/11	6/3/11	71,427	0
BA-1	AP-108	6/2/11	6/3/11	157,300	3,464
BA-5	AP-108	6/3/11	6/4/11	155,600	2,631
BA-2	AP-108	6/4/11	6/5/11	174,500	5,377
AN-104	AP-102	6/1/11	6/6/11	972,200	3,098
AN-103	AP-104	6/1/11	6/6/11	1,114,000	2,128
AN-103	AP-102	6/6/11	6/6/11	998	2
SY-103	AN-103	6/6/11	6/10/11	1,084,000	32,737
B-111	BA-6	4/9/11	6/11/11	145,200	4,764
AN-103	AP-102	6/11/11	6/12/11	136,200	4,016
BA-6	AP-108	6/11/11	6/12/11	159,400	4,762
AN-103	AP-108	6/12/11	6/13/11	133,100	3,925
WATER	AP-106	7/1/11	7/1/11	25,000	0
BY-110	BA-4	6/2/11	7/8/11	147,300	2,631
BX-112	BA-3	6/2/11	8/2/11	143,600	6,262
B-111	BA-1	6/11/11	8/12/11	145,100	4,761
B-111	BA-6	8/12/11	8/13/11	719	24
BY-110	BA-5	7/8/11	8/13/11	147,300	2,631
SX-112	SY-103	4/6/04	8/27/11	397,100	16,406
BX-112	BA-2	8/2/11	9/4/11	78,662	3,430
BY-110	BA-2	9/4/11	9/14/11	40,856	730
AX-101	AN-104	7/31/07	9/30/11	2,149,000	6,072

HNF-2321
Revision 0

Table A.4-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 4.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
X	AP-102	AP-103	10/25/99	10/30/99	1,070,000	0	Empty 2AP
X	AP-104	AW-102	7/25/00	7/30/00	1,110,000	43	Empty 4AP
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Pre-Stage Envelope B
	WASH-WATER	AP-104	10/1/00	10/2/00	200,000	0	Flush Water to 4AP
	AP-104	AP-102	10/15/00	10/16/00	200,000	1	Flush 4AP
	AP-102	AP-106	2/15/01	2/16/01	200,500	1	Flush 2AP
	AN-105	AP-102	3/17/01	3/20/01	542,400	7,895	Retrieve/Stage LAW Batch 1, Envelope A
	LERF	AN-105-PUMP	3/17/01	3/20/01	154,100	0	Dilution Water
	AN-105	AP-102	3/17/01	3/20/01	686,500	294	As-received Ghost
X	AP-108	AP-106	3/22/01	3/23/01	356,500	8	Empty 8AP
	AN-105	AP-104	3/21/01	3/24/01	542,400	7,895	Retrieve/Stage LAW Batch 2, Envelope A
	LERF	AN-105-PUMP	3/21/01	3/24/01	154,100	0	Dilution Water
	AN-105	AP-104	3/21/01	3/24/01	686,500	294	As-received Ghost
	WASH-WATER	AP-108	4/7/01	4/8/01	200,000	0	Flush Water to 8AP
	AP-108	AP-106	4/21/01	4/21/01	200,000	1	Flush 8AP
	AP-102	AP-108	7/10/01	7/14/01	686,500	282	Deliver LAW Batch 1
	AN-104	AP-102	10/1/01	10/4/01	502,200	12,513	Retrieve/Stage LAW Batch 3, Envelope A
	LERF	AN-104-PUMP	10/1/01	10/4/01	200,800	0	Dilution Water
	AN-104	AP-102	10/1/01	10/4/01	684,700	702	As-received Ghost
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Pre-Stage Envelope B
	AP-104	AP-108	1/5/03	1/9/03	686,500	282	Deliver LAW Batch 2
	AN-104	AP-104	1/10/03	1/13/03	502,200	12,513	Retrieve/Stage LAW Batch 4, Envelope A
	LERF	AN-104-PUMP	1/10/03	1/13/03	200,800	0	Dilution Water
	AN-104	AP-104	1/10/03	1/13/03	684,700	702	As-received Ghost
	RETURN 2	AP-107	4/3/03	4/3/03	8,671	331	Returns From Contractor
	AP-102	AP-108	9/19/03	9/22/03	684,700	686	Deliver LAW Batch 3
	AW-101	AP-102	9/23/03	9/27/03	537,200	13,013	Retrieve/Stage LAW Batch 5, Envelope A
	LERF	AW-101-PUMP	9/23/03	9/27/03	308,100	0	Dilution Water
	AW-101	AP-102	9/23/03	9/27/03	845,400	13,013	As-received Ghost
	RETURN 2	AP-107	2/2/04	2/2/04	8,670	331	Returns From Contractor
	AP-104	AP-108	6/12/04	6/15/04	684,700	686	Deliver LAW Batch 4
	AW-101	AP-104	6/16/04	6/20/04	537,200	13,013	Retrieve/Stage LAW Batch 6, Envelope A
	LERF	AW-101-PUMP	6/16/04	6/20/04	308,100	0	Dilution Water
	AW-101	AP-104	6/16/04	6/20/04	845,400	13,013	As-received Ghost
	RETURN 2	AP-107	8/31/04	8/31/04	8,672	332	Returns From Contractor
	RETURN 2	AP-107	1/18/05	1/18/05	8,672	332	Returns From Contractor
	AP-102	AP-108	3/6/05	3/10/05	740,300	1,581	Deliver LAW Batch 5
	WASH-WATER	AP-102	3/25/05	3/25/05	136,900	0	Flush Water to 2AP
	AP-102	AP-106	4/8/05	4/8/05	243,100	10,337	Flush 2AP
	AY-101	AP-102	4/9/05	4/10/05	283,600	12	Retrieve/Stage LAW Batch 7, Envelope B
	RETURN 2	AP-107	6/2/05	6/2/05	8,675	331	Returns From Contractor
	RETURN 2	AP-107	10/10/05	10/10/05	8,679	330	Returns From Contractor
	AP-104	AP-108	10/10/05	10/14/05	740,300	1,581	Deliver LAW Batch 6
	WASH-WATER	AP-104	10/29/05	10/29/05	136,900	0	Flush Water to 4AP
	AP-104	AP-106	11/12/05	11/12/05	243,100	10,337	Flush 4AP
	AN-107	AP-104	11/13/05	11/15/05	481,700	22	Retrieve/Stage LAW Batch 8/9, Envelope C
	LERF	AN-107-PUMP	11/13/05	11/15/05	72,259	0	Dilution Water
	AN-107	AP-104	11/13/05	11/15/05	554,000	22	As-received Ghost
	RETURN 2	AP-107	11/29/05	11/30/05	8,677	330	Returns From Contractor
	RETURN 2	AP-107	1/19/06	1/19/06	8,677	330	Returns From Contractor
	RETURN 2	AP-107	3/10/06	3/10/06	8,677	330	Returns From Contractor
	RETURN 2	AP-107	4/29/06	4/29/06	8,677	330	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	6/1/02	6/12/06	4,223,000	5,042	Complete Processing Envelope A
	AP-102	AP-108	6/12/06	6/13/06	277,300	552	Deliver LAW Batch 7
	AN-107	AP-102	6/14/06	6/16/06	481,700	22	Retrieve/Stage LAW Batch 10, Envelope C
	LERF	AN-107-PUMP	6/14/06	6/16/06	72,260	0	Dilution Water

HNF-2321
Revision 0

Table A.4-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 4.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AN-107	AP-102	6/14/06	6/16/06	554,000	22	As-received Ghost
	RETURN 2	AP-107	6/18/06	6/18/06	8,683	330	Returns From Contractor
	RETURN 2	AP-107	7/24/06	7/24/06	8,678	328	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	6/14/06	8/12/06	277,300	555	Complete Processing Envelope B
	AP-104	AP-108	8/12/06	8/13/06	171,100	337	Deliver LAW Batch 8
	RETURN 2	AP-107	9/8/06	9/8/06	8,684	329	Returns From Contractor
	AP-104	AP-108	9/9/06	9/11/06	381,800	753	Deliver LAW Batch 9
	AN-102	AP-104	9/12/06	9/15/06	443,500	21	Retrieve/Stage LAW Batch 11, Envelope C
	LERF	AN-102-PUMP	9/12/06	9/15/06	266,100	0	Dilution Water
	AN-102	AP-104	9/12/06	9/15/06	709,700	21	As-received Ghost
	RETURN 2	AP-107	11/2/06	11/2/06	8,683	330	Returns From Contractor
	RETURN 2	AP-107	12/28/06	12/28/06	8,683	330	Returns From Contractor
	AP-102	AP-108	1/20/07	1/23/07	559,200	575	Deliver LAW Batch 10
	AN-103	AP-102	1/24/07	1/27/07	436,600	28,133	Retrieve/Stage LAW Batch 12, Envelope A
	LERF	AN-103-PUMP	1/24/07	1/27/07	264,900	0	Dilution Water
	AN-103	AP-102	1/24/07	1/27/07	738,300	549	As-received Ghost
	RETURN 2	AP-107	2/23/07	2/24/07	8,673	330	Returns From Contractor
	RETURN 2	AP-107	4/23/07	4/23/07	8,672	330	Returns From Contractor
	RETURN 2	AP-107	6/20/07	6/20/07	8,672	330	Returns From Contractor
	AP-104	AP-108	8/3/07	8/7/07	709,600	72	Deliver LAW Batch 11
	AN-103	AP-104	8/8/07	8/11/07	436,600	28,133	Retrieve/Stage LAW Batch 13, Envelope A
	LERF	AN-103-PUMP	8/8/07	8/11/07	264,900	0	Dilution Water
	AN-103	AP-104	8/8/07	8/11/07	738,300	549	As-received Ghost
	RETURN 2	AP-107	8/27/07	8/27/07	8,675	330	Returns From Contractor
	RETURN 2	AP-107	12/3/07	12/3/07	8,675	329	Returns From Contractor
	RETURN 2	AP-107	3/11/08	3/11/08	8,675	329	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	8/14/06	4/10/08	1,822,000	1,786	Complete Processing Envelope C
	AP-102	AP-108	4/10/08	4/14/08	738,300	557	Deliver LAW Batch 12
	RETURN 2	AP-107	8/17/08	8/18/08	8,672	330	Returns From Contractor
	AP-104	AP-108	1/5/09	1/9/09	738,400	532	Deliver LAW Batch 13
	RETURN 2	AP-107	2/16/09	2/16/09	8,670	331	Returns From Contractor
	RETURN 2	AP-107	8/17/09	8/17/09	8,670	331	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	4/14/08	11/28/09	1,477,000	1,076	Complete Processing Extended Order Envelope A
	RETURN 2	AP-107	11/29/09	11/29/09	4,912	188	Returns From Contractor
X	AP-107	AZ-101	12/9/09	12/11/09	395,500	7,596	Transfer Returns to AZ-101 (Phase 2 HLW Tank)

Table A.4-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 4.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AY-102	C-106	7/1/98	7/5/98	920,700	31	Sluice "Water" for C-106 Retrieval - Lumped (See Below)
	C-106	AY-102	7/15/98	11/10/98	809,000	15,169	C-106 Retrieval (Project W-320)
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Initial Decant 1AZ
	WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0	First Wash 1AZ
	AZ-101	AP-106	10/9/00	10/10/00	143,200	0	First Decant 1AZ
	WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0	Second Wash 1AZ
	AZ-101	AP-106	11/30/00	12/1/00	140,200	0	Second Decant 1AZ
	WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0	Third Wash 1AZ
	AZ-101	AP-106	1/21/01	1/21/01	142,900	0	Third Decant 1AZ
	WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0	Transfer Water Add 1AZ
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Initial Decant 2AZ
	AZ-102	AP-107	11/16/01	11/16/01	181,800	0	Complete Initial Decant 2AZ
	WASH-WATER	AZ-102	11/17/01	11/18/01	213,000	0	First Wash 2AZ
	AZ-102	AP-106	1/6/02	1/6/02	127,700	0	First Decant 2AZ
	WASH-WATER	AZ-102	1/8/02	1/9/02	213,000	0	Second Wash 2AZ
	AZ-102	AP-106	2/27/02	2/28/02	210,300	0	Second Decant 2AZ
	WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0	Third Wash 2AZ
	AZ-102	AP-106	4/20/02	4/21/02	211,800	0	Third Decant 2AZ
	WASH-WATER	AZ-102	4/22/02	4/23/02	213,000	0	Fourth Wash 2AZ
	AZ-101	PIHLW_FEED_TANK	5/17/02	5/17/02	134,300	5,079	Deliver Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-102	AP-106	6/12/02	6/13/02	212,500	0	Fourth Decant 2AZ
	WASH-WATER	AZ-102	6/14/02	6/14/02	110,000	0	Transfer Water Add 2AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079	Process Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-101	PIHLW_FEED_TANK	2/21/03	2/21/03	134,300	5,079	Deliver Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
X	AY-102	AZ-101	2/24/03	3/1/03	819,600	16,032	Transfer 2AY/6C Slurry to 1AZ for Pretreatment
	AZ-101	AP-106	10/28/03	10/31/03	622,700	0	Initial Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	10/31/03	11/2/03	324,000	0	First Wash 2AY/6C Slurry in 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079	Process Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
	AZ-102	PIHLW_FEED_TANK	11/14/03	11/14/03	123,900	5,202	Deliver Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-101	AP-106	12/21/03	12/22/03	320,000	0	First Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	12/24/03	12/25/03	324,000	0	Second Wash 2AY/6C Slurry in 1AZ
	AZ-101	AP-106	2/12/04	2/14/04	322,300	0	Second Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	2/15/04	2/17/04	433,600	0	Transfer Water Add 1AZ for 2AY/6C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202	Process Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-102	PIHLW_FEED_TANK	8/7/04	8/8/04	123,900	5,202	Deliver Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	C-104	AY-102	8/1/04	9/8/04	279,100	9,724	C-104 Retrieval (Project W-???)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202	Process Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	AZ-101	PIHLW_FEED_TANK	5/2/05	5/2/05	127,200	3,269	Deliver Batch 1 of 2AY/6C from 1AZ, Envelope D (Batch 5 Overall)
X	AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360	Transfer 4C Slurry to 2AZ for Pretreatment
	PIHLW_FEED_TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269	Process Batch 1 of 2AY/6C, Envelope D (Batch 5 Overall)
	AZ-101	PIHLW_FEED_TANK	11/16/05	11/17/05	127,200	3,269	Deliver Batch 2 of 2AY/6C from 1AZ, Envelope D (Batch 6 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269	Process Batch 2 of 2AY/6C, Envelope D (Batch 6 Overall)
	AZ-101	PIHLW_FEED_TANK	6/2/06	6/3/06	127,200	3,269	Deliver Batch 3 of 2AY/6C from 1AZ, Envelope D (Batch 7 Overall)
	AZ-102	AP-106	6/23/06	6/24/06	159,500	0	Initial Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	6/24/06	6/26/06	324,000	0	First Wash 4C Slurry in 2AZ
	AZ-102	AP-106	8/14/06	8/21/06	320,100	0	First Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	8/22/06	8/24/06	324,000	0	Second Wash 4C Slurry in 2AZ
	AZ-102	AP-106	10/12/06	10/13/06	322,700	0	Second Decant 4C Slurry from 2AZ

Table A.4-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 4.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	WASH-WATER	AZ-102	10/15/06	10/15/06	150,500	0	Transfer Water Add 2AZ for 4C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269	Process Batch 3 of 2AY/6C, Envelope D (Batch 7 Overall)
	AZ-101	PIHLW_FEED_TANK	12/18/06	12/18/06	127,200	3,269	Deliver Batch 4 of 2AY/6C from 1AZ, Envelope D (Batch 8 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269	Process Batch 4 of 2AY/6C, Envelope D (Batch 8 Overall)
	AZ-101	PIHLW_FEED_TANK	7/4/07	7/5/07	127,200	3,269	Deliver Batch 5 of 2AY/6C from 1AZ, Envelope D (Batch 9 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269	Process Batch 5 of 2AY/6C, Envelope D (Batch 9 Overall)
	AZ-102	PIHLW_FEED_TANK	1/18/08	1/19/08	137,700	4,774	Deliver Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774	Process Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	AZ-102	PIHLW_FEED_TANK	12/22/08	12/22/08	137,700	4,774	Deliver Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
X	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774	Process Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
	AP-107	AZ-101	12/9/09	12/11/09	395,500	7,596	LAW Returns to 1AZ

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
BPTCO	AP-106	10/1/96	10/1/96	11,000	0
34L87	AP-106	10/1/96	10/1/96	10,000	0
WNE88	AP-106	10/1/96	10/1/96	1,000	0
TNS88	AP-106	10/1/96	10/1/96	750	250
TAL88	AP-106	10/1/96	10/1/96	4,000	0
1FL96	AW-105	10/1/96	10/1/96	13,000	0
EVAPF	AP-106	10/1/96	10/1/96	10,000	0
INS96	AW-105	10/1/96	10/1/96	750	250
SPN87	AP-106	10/1/96	10/1/96	7,000	0
WESF	AP-106	10/1/96	10/1/96	5,000	0
WATER	SY-102	10/1/96	10/1/96	5,000	0
ZNL87	SY-102	10/1/96	10/1/96	2,000	0
WNW88	SY-102	10/1/96	10/1/96	19,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	3,000	0
WATER	SY-102	10/2/96	10/2/96	5,000	0
WATER	AW-105	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	12,000	0
EVAPF	AP-106	11/1/96	11/1/96	10,000	0
WNE88	AP-106	11/1/96	11/1/96	1,000	0
BPTCO	AP-106	11/1/96	11/1/96	10,000	0
WATER	SY-102	11/1/96	11/1/96	3,000	0
WNW88	SY-102	11/1/96	11/1/96	14,000	0
EVAPF	AP-106	12/1/96	12/1/96	10,000	0
WNW88	SY-102	12/1/96	12/1/96	14,000	0
WATER	SY-102	12/1/96	12/1/96	3,000	0
WNE88	AP-106	12/1/96	12/1/96	1,000	0
BPTCO	AP-106	12/1/96	12/1/96	11,000	0
EVAPF	AP-106	1/1/97	1/1/97	10,000	0
WNE88	AP-106	1/1/97	1/1/97	1,000	0
WESF	AP-106	1/1/97	1/1/97	5,000	0
SPN87	AP-106	1/1/97	1/1/97	6,000	0
WNW88	SY-102	1/1/97	1/1/97	14,000	0
WATER	SY-102	1/1/97	1/1/97	4,000	0
TAL88	AP-106	1/1/97	1/1/97	4,000	0
BPTCO	AP-106	1/1/97	1/1/97	10,000	0
34L87	AP-106	1/1/97	1/1/97	10,000	0
WATER	AP-106	1/1/97	1/1/97	4,000	0
AW-106	AP-101	1/4/97	1/4/97	69,511	3
AN-106	AP-108	1/11/97	1/12/97	177,000	7
EVAPF	AP-106	2/1/97	2/1/97	10,000	0
BPTCO	AP-106	2/1/97	2/1/97	10,000	0
WATER	SY-102	2/1/97	2/1/97	4,000	0
WNW88	SY-102	2/1/97	2/1/97	14,000	0
EVAPF	AW-102	2/20/97	2/20/97	50,000	0
AP-105	AW-102	2/20/97	2/24/97	942,000	39
PXTCO	AP-106	3/1/97	3/1/97	5,000	0
WNW88	SY-102	3/1/97	3/1/97	16,000	0
WATER	SY-102	3/1/97	3/1/97	4,000	0
WATER	AP-106	3/1/97	3/1/97	5,000	0
34L87	AP-106	3/1/97	3/1/97	10,000	0
BPTCO	AP-106	3/1/97	3/1/97	11,000	0
EVAPF	AP-106	3/1/97	3/1/97	10,000	0
AW-102	242-A	2/26/97	3/2/97	1,027,000	42
242-A	AW-106	2/26/97	3/2/97	622,000	42

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	LERF	2/26/97	3/2/97	405,000	0
EVAPF	AW-102	3/3/97	3/3/97	35,000	0
EVAPF	AP-106	4/1/97	4/1/97	10,000	0
WESF	AP-106	4/1/97	4/1/97	5,000	0
TAL88	AP-106	4/1/97	4/1/97	4,000	0
WATER	SY-102	4/1/97	4/1/97	6,000	0
BPTCO	AP-106	4/1/97	4/1/97	10,000	0
WNE88	AP-106	4/1/97	4/1/97	1,000	0
SPN87	AP-106	4/1/97	4/1/97	6,000	0
WNW88	SY-102	4/1/97	4/1/97	22,000	0
AW-106	AP-105	4/25/97	4/28/97	617,000	29
AY-101	AP-108	4/25/97	4/29/97	809,000	30
EVAPF	AP-106	5/1/97	5/1/97	10,000	0
34L87	AP-106	5/1/97	5/1/97	10,000	0
WNE88	AP-106	5/1/97	5/1/97	1,000	0
BPTCO	AP-106	5/1/97	5/1/97	11,000	0
WATER	AP-106	5/1/97	5/1/97	4,000	0
WNW88	SY-102	5/1/97	5/1/97	19,000	0
WATER	SY-102	5/1/97	5/1/97	5,000	0
BPTCO	AP-106	6/1/97	6/1/97	10,000	0
WATER	SY-102	6/1/97	6/1/97	4,000	0
WNW88	SY-102	6/1/97	6/1/97	16,000	0
WNE88	AP-106	6/1/97	6/1/97	1,000	0
EVAPF	AP-106	6/1/97	6/1/97	10,000	0
34L87	AP-106	7/1/97	7/1/97	10,000	0
WESF	AP-106	7/1/97	7/1/97	5,000	0
WATER	AN-101	7/1/97	7/1/97	5,000	0
WNE88	AP-106	7/1/97	7/1/97	1,000	0
EVAPF	AP-106	7/1/97	7/1/97	10,000	0
WNW88	SY-102	7/1/97	7/1/97	24,000	0
WATER	SY-102	7/1/97	7/1/97	6,000	0
WATER	AP-106	7/1/97	7/1/97	4,000	0
SPN87	AP-106	7/1/97	7/1/97	6,000	0
TAL88	AP-106	7/1/97	7/1/97	4,000	0
BPTCO	AP-106	7/1/97	7/1/97	11,000	0
WCE88	AN-101	7/1/97	7/1/97	20,000	0
AN-106	AP-108	7/25/97	7/26/97	194,000	7
AP-108	AW-102	7/25/97	7/31/97	1,198,000	42
EVAPF	AP-106	8/1/97	8/1/97	10,000	0
WATER	AP-106	8/1/97	8/1/97	4,000	0
WATER	SY-102	8/1/97	8/1/97	13,000	0
WCE88	AN-101	8/1/97	8/1/97	25,000	0
WATER	AN-101	8/1/97	8/1/97	6,000	0
BPTCO	AP-106	8/1/97	8/1/97	10,000	0
WNE88	AP-106	8/1/97	8/1/97	16,000	0
WNW88	SY-102	8/1/97	8/1/97	51,000	0
AW-102	242-A	7/28/97	8/2/97	1,198,000	39
242-A	AW-106	7/28/97	8/2/97	346,700	39
242-A	LERF	7/28/97	8/2/97	851,300	0
EVAPF	AW-102	8/3/97	8/3/97	25,000	0
WATER	AP-107	8/20/97	8/20/97	35,000	0
AW-106	AN-106	8/25/97	8/26/97	347,000	16
SY-102	AP-107	8/25/97	8/27/97	520,000	20
WATER	AN-101	9/1/97	9/1/97	10,000	0
EVAPF	AP-106	9/1/97	9/1/97	10,000	0
WATER	SY-102	9/1/97	9/1/97	15,000	0

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-106	9/1/97	9/1/97	12,000	0
BPTCO	AP-106	9/1/97	9/1/97	10,000	0
WNW88	SY-102	9/1/97	9/1/97	61,000	0
WNE88	AP-106	9/1/97	9/1/97	46,000	0
WCE88	AN-101	9/1/97	9/1/97	40,000	0
WATER	AP-106	10/1/97	10/1/97	12,000	0
WESF	AP-106	10/1/97	10/1/97	5,000	0
WATER	AN-101	10/1/97	10/1/97	10,000	0
TAL88	AP-106	10/1/97	10/1/97	4,000	0
34L87	AP-106	10/1/97	10/1/97	10,000	0
BPTCO	AP-106	10/1/97	10/1/97	11,000	0
EVAPF	AP-106	10/1/97	10/1/97	10,000	0
TNS88	AP-106	10/1/97	10/1/97	750	250
34L87	AP-106	10/1/97	10/1/97	7,000	0
PXTCO	AP-106	10/1/97	10/1/97	5,000	0
SPN87	SY-102	10/1/97	10/1/97	7,000	0
ZNL87	SY-102	10/1/97	10/1/97	4,000	0
WNE88	AP-106	10/1/97	10/1/97	46,000	0
WATER	SY-102	10/1/97	10/1/97	28,000	0
WCE88	AN-101	10/1/97	10/1/97	40,000	0
WNW88	SY-102	10/1/97	10/1/97	111,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
WATER	SY-102	10/2/97	10/2/97	5,000	0
WASH-CAUSTIC	AN-107	10/2/97	10/2/97	66,000	0
WATER	SY-102	10/2/97	10/2/97	1,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
AY-102	AP-106	10/25/97	10/25/97	35,999	1
WATER	AY-102	10/26/97	10/27/97	176,000	0
EVAPF	AP-106	11/1/97	11/1/97	10,000	0
WATER	AP-106	11/1/97	11/1/97	12,000	0
WNE88	AP-106	11/1/97	11/1/97	46,000	0
WATER	SY-102	11/1/97	11/1/97	30,000	0
WATER	AN-101	11/1/97	11/1/97	10,000	0
WCE88	AN-101	11/1/97	11/1/97	40,000	0
WNW88	SY-102	11/1/97	11/1/97	119,000	0
EVAPF	AP-106	12/1/97	12/1/97	10,000	0
WATER	AP-106	12/1/97	12/1/97	11,000	0
WNE88	AP-106	12/1/97	12/1/97	42,000	0
WATER	SY-102	12/1/97	12/1/97	33,000	0
WATER	AN-101	12/1/97	12/1/97	10,000	0
WCE88	AN-101	12/1/97	12/1/97	40,000	0
WNW88	SY-102	12/1/97	12/1/97	131,000	0
WATER	AP-107	12/20/97	12/20/97	35,000	0
SY-102	AP-107	12/26/97	12/28/97	520,000	21
AP-106	AP-104	12/25/97	12/30/97	996,600	35
34L87	AP-106	1/1/98	1/1/98	10,000	0
TAL88	AP-106	1/1/98	1/1/98	4,000	0
WATER	AP-106	1/1/98	1/1/98	10,000	0
WATER	AP-106	1/1/98	1/1/98	4,000	0
EVAPF	AP-106	1/1/98	1/1/98	10,000	0
SPN87	SY-102	1/1/98	1/1/98	6,000	0
BPTCO	AP-106	1/1/98	1/1/98	11,000	0
WATER	SY-102	1/1/98	1/1/98	37,000	0
WNE88	AP-106	1/1/98	1/1/98	38,000	0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCE88	AN-101	1/1/98	1/1/98	40,000	0
WATER	AN-101	1/1/98	1/1/98	10,000	0
WNNW88	SY-102	1/1/98	1/2/98	146,000	0
WATER	SY-102	2/1/98	2/1/98	35,000	0
WATER	AN-101	2/1/98	2/1/98	10,000	0
EVAPF	AP-106	2/1/98	2/1/98	10,000	0
WNE88	AP-106	2/1/98	2/1/98	33,000	0
WATER	AP-106	2/1/98	2/1/98	8,000	0
WCE88	AN-101	2/1/98	2/1/98	40,000	0
WNNW88	SY-102	2/1/98	2/2/98	140,000	0
BPTCO	AP-106	3/1/98	3/1/98	11,000	0
WATER	AP-106	3/1/98	3/1/98	5,000	0
EVAPF	AP-106	3/1/98	3/1/98	10,000	0
34L87	AP-106	3/1/98	3/1/98	10,000	0
WNE88	AP-106	3/1/98	3/1/98	26,000	0
WATER	AP-106	3/1/98	3/1/98	7,000	0
WATER	AN-101	3/1/98	3/1/98	10,000	0
WATER	SY-102	3/1/98	3/1/98	31,000	0
WCE88	AN-101	3/1/98	3/1/98	40,000	0
WNNW88	SY-102	3/1/98	3/1/98	124,000	0
WATER	AP-104	3/20/98	3/20/98	35,000	0
SY-102	AP-104	3/25/98	3/27/98	520,000	21
AP-104	AW-102	3/25/98	3/30/98	998,000	33
SPN87	SY-102	4/1/98	4/1/98	6,000	0
WNE88	AP-106	4/1/98	4/1/98	20,000	0
WATER	SY-102	4/1/98	4/1/98	36,000	0
WATER	AN-101	4/1/98	4/1/98	25,000	0
WATER	AP-106	4/1/98	4/1/98	5,000	0
TAL88	AP-106	4/1/98	4/1/98	4,000	0
EVAPF	AP-106	4/1/98	4/1/98	10,000	0
WCE88	AN-101	4/1/98	4/1/98	101,000	0
AW-102	242-A	3/28/98	4/1/98	1,058,000	31
242-A	AW-106	3/28/98	4/1/98	180,100	31
242-A	LERF	3/28/98	4/1/98	877,800	0
WNNW88	SY-102	4/1/98	4/1/98	146,000	0
34L87	AP-106	5/1/98	5/1/98	10,000	0
BPTCO	AP-106	5/1/98	5/1/98	11,000	0
WATER	AP-106	5/1/98	5/1/98	4,000	0
EVAPF	AP-106	5/1/98	5/1/98	10,000	0
WATER	AP-106	5/1/98	5/1/98	5,000	0
WNE88	AP-106	5/1/98	5/1/98	20,000	0
WATER	AN-101	5/1/98	5/1/98	24,000	0
WCW88	SY-102	5/1/98	5/1/98	19,000	0
WCE88	AN-101	5/1/98	5/1/98	95,000	0
WATER	SY-102	5/1/98	5/1/98	37,000	0
WATER	SY-102	5/1/98	5/1/98	5,000	0
WNNW88	SY-102	5/1/98	5/1/98	147,000	0
AP-107	AW-102	5/25/98	5/30/98	1,104,000	40
WATER	AN-101	6/1/98	6/1/98	7,000	0
WCE88	AN-101	6/1/98	6/1/98	28,000	0
WCW88	SY-102	6/1/98	6/1/98	19,000	0
EVAPF	AP-106	6/1/98	6/1/98	10,000	0
WNE88	AP-106	6/1/98	6/1/98	16,000	0
WATER	SY-102	6/1/98	6/1/98	36,000	0
WATER	AP-106	6/1/98	6/1/98	4,000	0
WATER	SY-102	6/1/98	6/1/98	5,000	0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	242-A	5/28/98	6/1/98	1,104,000	39
242-A	AW-106	5/28/98	6/1/98	448,700	39
242-A	LERF	5/28/98	6/1/98	655,200	0
WNW88	SY-102	6/1/98	6/2/98	142,000	0
EVAPF	AW-102	6/3/98	6/3/98	35,000	0
WATER	AP-104	6/20/98	6/20/98	35,000	0
AW-106	AP-105	6/25/98	6/26/98	341,000	17
SY-102	AP-104	6/25/98	6/27/98	520,000	21
EVAPF	AP-106	7/1/98	7/1/98	10,000	0
WNE88	AP-106	7/1/98	7/1/98	13,000	0
WCE88	AN-101	7/1/98	7/1/98	28,000	0
WATER	SY-102	7/1/98	7/1/98	32,000	0
WATER	AN-101	7/1/98	7/1/98	7,000	0
WATER	SY-102	7/1/98	7/1/98	3,000	0
SPN87	SY-102	7/1/98	7/1/98	6,000	0
WCW88	SY-102	7/1/98	7/1/98	13,000	0
WATER	AP-106	7/1/98	7/1/98	4,000	0
34L87	AP-106	7/1/98	7/1/98	10,000	0
TAL88	AP-106	7/1/98	7/1/98	4,000	0
WATER	AP-106	7/1/98	7/1/98	3,000	0
WNW88	SY-102	7/1/98	7/2/98	127,000	0
AY-102	C-106	7/1/98	7/5/98	920,700	31
BPTCO	AP-106	7/11/98	7/11/98	11,000	0
WATER	AN-101	8/1/98	8/1/98	7,000	0
EVAPF	AP-106	8/1/98	8/1/98	10,000	0
WCE88	AN-101	8/1/98	8/1/98	28,000	0
WATER	SY-102	8/1/98	8/1/98	30,000	0
WATER	AP-106	8/1/98	8/1/98	2,000	0
WNE88	AP-106	8/1/98	8/1/98	7,000	0
WCW88	SY-102	8/1/98	8/1/98	13,000	0
WATER	SY-102	8/1/98	8/1/98	3,000	0
WNW88	SY-102	8/1/98	8/2/98	121,000	0
WCW88	SY-102	9/1/98	9/1/98	8,000	0
WNE88	AP-106	9/1/98	9/1/98	7,000	0
WATER	AP-106	9/1/98	9/1/98	2,000	0
WATER	SY-102	9/1/98	9/1/98	34,000	0
WATER	SY-102	9/1/98	9/1/98	2,000	0
EVAPF	AP-106	9/1/98	9/1/98	10,000	0
WATER	AN-101	9/1/98	9/1/98	7,000	0
WCE88	AN-101	9/1/98	9/1/98	28,000	0
WNW88	SY-102	9/1/98	9/1/98	137,000	0
WATER	AP-107	9/20/98	9/20/98	35,000	0
SY-102	AP-107	9/25/98	9/27/98	520,000	21
AP-101	AW-103	9/25/98	9/28/98	625,000	27
ZNL87	SY-102	10/1/98	10/1/98	4,000	0
34L87	AP-106	10/1/98	10/1/98	10,000	0
PXTCO	AP-106	10/1/98	10/1/98	5,000	0
EVAPF	AP-106	10/1/98	10/1/98	10,000	0
TAL88	AP-106	10/1/98	10/1/98	4,000	0
WNE88	AP-106	10/1/98	10/1/98	3,000	0
WESF	AP-106	10/1/98	10/1/98	5,000	0
TNS88	AP-106	10/1/98	10/1/98	750	250
WCE88	AN-101	10/1/98	10/1/98	28,000	0
WATER	SY-102	10/1/98	10/1/98	30,000	0
WATER	AP-106	10/1/98	10/1/98	1,000	0
WATER	AN-101	10/1/98	10/1/98	7,000	0

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCW88	SY-102	10/1/98	10/1/98	8,000	0
WATER	SY-102	10/1/98	10/1/98	2,000	0
SPN87	SY-102	10/1/98	10/1/98	7,000	0
WNW88	SY-102	10/1/98	10/1/98	121,000	0
WATER	AP-106	10/2/98	10/2/98	3,000	0
WATER	AP-106	10/2/98	10/2/98	5,000	0
WATER	SY-102	10/2/98	10/2/98	5,000	0
EVAPF	AW-102	10/4/98	10/4/98	50,000	0
AW-102	AW-106	10/9/98	10/9/98	150,000	6
AP-104	AW-102	10/5/98	10/11/98	1,107,000	43
AW-104	AP-107	10/9/98	10/11/98	540,000	18
AW-104	AP-104	10/18/98	10/18/98	164,000	6
AP-101	AW-104	10/21/98	10/23/98	460,000	20
AW-106	AP-101	10/29/98	10/30/98	289,000	13
WCW88	SY-102	11/1/98	11/1/98	3,000	0
WATER	SY-102	11/1/98	11/1/98	30,000	0
WATER	AN-101	11/1/98	11/1/98	7,000	0
WNE88	AP-106	11/1/98	11/1/98	2,000	0
WCE88	AN-101	11/1/98	11/1/98	28,000	0
WATER	SY-102	11/1/98	11/1/98	1,000	0
EVAPF	AP-106	11/1/98	11/1/98	10,000	0
WNW88	SY-102	11/1/98	11/1/98	120,000	0
AW-106	AW-102	11/5/98	11/5/98	150,000	9
AW-102	242-A	11/4/98	11/9/98	1,193,000	46
242-A	AW-106	11/4/98	11/9/98	602,900	46
242-A	LERF	11/4/98	11/9/98	589,600	0
C-106	AY-102	7/15/98	11/10/98	809,000	15,169
WCW88	SY-102	12/1/98	12/1/98	3,000	0
WATER	SY-102	12/1/98	12/1/98	29,000	0
WATER	AN-101	12/1/98	12/1/98	6,000	0
WATER	SY-102	12/1/98	12/1/98	1,000	0
WNE88	AP-106	12/1/98	12/1/98	1,000	0
EVAPF	AP-106	12/1/98	12/1/98	10,000	0
WCE88	AN-101	12/1/98	12/1/98	23,000	0
WNW88	SY-102	12/1/98	12/1/98	116,000	0
WATER	AP-104	12/20/98	12/20/98	35,000	0
SY-102	AP-104	12/25/98	12/27/98	520,000	21
AW-106	AP-101	12/25/98	12/28/98	605,000	27
WATER	SY-102	1/1/99	1/1/99	6,000	0
SPN87	SY-102	1/1/99	1/1/99	6,000	0
TAL88	AP-106	1/1/99	1/1/99	4,000	0
WATER	AP-106	1/1/99	1/1/99	4,000	0
34L87	AP-106	1/1/99	1/1/99	10,000	0
WATER	AN-101	1/1/99	1/1/99	6,000	0
EVAPF	AP-106	1/1/99	1/1/99	10,000	0
WCW88	SY-102	1/1/99	1/1/99	23,000	0
WATER	SY-102	1/1/99	1/1/99	25,000	0
WCE88	AN-101	1/1/99	1/1/99	23,000	0
WNW88	SY-102	1/1/99	1/1/99	102,000	0
AP-106	AP-104	1/25/99	1/27/99	385,000	14
WATER	AN-101	2/1/99	2/1/99	6,000	0
EVAPF	AP-106	2/1/99	2/1/99	10,000	0
WCE88	AN-101	2/1/99	2/1/99	23,000	0
WATER	SY-102	2/1/99	2/1/99	11,000	0
WCW88	SY-102	2/1/99	2/1/99	45,000	0
WATER	SY-102	2/1/99	2/1/99	23,000	0

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	2/1/99	2/1/99	91,000	0
WATER	SY-102	3/1/99	3/1/99	17,000	0
34L87	AP-106	3/1/99	3/1/99	10,000	0
WCW88	SY-102	3/1/99	3/1/99	67,000	0
WATER	SY-102	3/1/99	3/1/99	21,000	0
WATER	AP-106	3/1/99	3/1/99	5,000	0
EVAPF	AP-106	3/1/99	3/1/99	10,000	0
WATER	AN-101	3/1/99	3/1/99	4,000	0
WCE88	AN-101	3/1/99	3/1/99	17,000	0
WNW88	SY-102	3/1/99	3/1/99	82,000	0
AN-101	AP-103	3/5/99	3/10/99	1,024,000	0
AP-107	AW-102	3/5/99	3/10/99	1,095,000	40
AW-102	242-A	3/8/99	3/12/99	1,095,000	38
242-A	AW-106	3/8/99	3/12/99	353,000	38
242-A	LBRF	3/8/99	3/12/99	741,900	0
AP-108	AP-106	3/15/99	3/15/99	500	0
WATER	AP-107	3/20/99	3/20/99	35,000	0
SY-102	AP-107	3/25/99	3/27/99	520,000	21
SPN87	SY-102	4/1/99	4/1/99	6,000	0
WATER	AP-106	4/1/99	4/1/99	4,000	0
WATER	SY-102	4/1/99	4/1/99	23,000	0
WATER	SY-102	4/1/99	4/1/99	16,000	0
TAL88	AP-106	4/1/99	4/1/99	4,000	0
WNW88	SY-102	4/1/99	4/1/99	64,000	0
WCW88	SY-102	4/1/99	4/1/99	91,000	0
EVAPF	AW-102	4/2/99	4/2/99	35,000	0
EVAPF	AP-106	4/3/99	4/3/99	10,000	0
WCE88	AP-106	4/3/99	4/3/99	17,000	0
AP-104	AW-102	4/3/99	4/7/99	917,400	0
WATER	AP-106	5/1/99	5/1/99	4,000	0
WATER	SY-102	5/1/99	5/1/99	15,000	0
34L87	AP-106	5/1/99	5/1/99	10,000	0
WATER	AP-106	5/1/99	5/1/99	4,000	0
EVAPF	AP-106	5/1/99	5/1/99	10,000	0
WCE88	AP-106	5/1/99	5/1/99	17,000	0
WATER	SY-102	5/1/99	5/1/99	21,000	0
WNW88	SY-102	5/1/99	5/1/99	60,000	0
WCW88	SY-102	5/1/99	5/1/99	84,000	0
AW-106	AN-101	5/15/99	5/16/99	353,600	16
WATER	SY-102	6/1/99	6/1/99	18,000	0
WATER	SY-102	6/1/99	6/1/99	14,000	0
WNW88	SY-102	6/1/99	6/1/99	56,000	0
WATER	AP-106	6/1/99	6/1/99	4,000	0
EVAPF	AP-106	6/1/99	6/1/99	10,000	0
WCW88	SY-102	6/1/99	6/1/99	74,000	0
WCE88	AP-106	6/1/99	6/1/99	17,000	0
AP-107	AP-106	6/15/99	6/17/99	555,500	21
WATER	AP-107	6/20/99	6/20/99	35,000	0
TAL88	AP-106	7/1/99	7/1/99	4,000	0
EVAPF	AP-106	7/1/99	7/1/99	10,000	0
WCE88	AP-106	7/1/99	7/1/99	11,000	0
WATER	AP-106	7/1/99	7/1/99	3,000	0
WATER	AP-106	7/1/99	7/1/99	4,000	0
WATER	SY-102	7/1/99	7/1/99	13,000	0
SPN87	SY-102	7/1/99	7/1/99	6,000	0
34L87	AP-106	7/1/99	7/1/99	10,000	0

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCW88	SY-102	7/1/99	7/1/99	65,000	0
WATER	SY-102	7/1/99	7/1/99	16,000	0
WNW88	SY-102	7/1/99	7/1/99	52,000	0
SY-102	AP-107	7/15/99	7/19/99	964,500	40
EVAPF	AP-106	8/1/99	8/1/99	10,000	0
WCE88	AP-106	8/1/99	8/1/99	11,000	0
WATER	SY-102	8/1/99	8/1/99	17,000	0
WATER	AP-106	8/1/99	8/1/99	3,000	0
WCW88	SY-102	8/1/99	8/1/99	65,000	0
WATER	SY-102	8/1/99	8/1/99	16,000	0
WNW88	SY-102	8/1/99	8/1/99	69,000	0
AW-102	242-A	8/1/99	8/6/99	952,400	36
242-A	AW-106	8/1/99	8/6/99	610,400	36
242-A	LERF	8/1/99	8/6/99	342,000	0
AW-106	AW-102	8/6/99	8/9/99	610,300	25
AW-102	242-A	8/23/99	8/27/99	610,300	25
242-A	AW-106	8/23/99	8/27/99	391,800	25
242-A	LERF	8/23/99	8/27/99	218,500	0
AW-106	AW-102	8/27/99	8/29/99	391,700	17
WATER	SY-102	9/1/99	9/1/99	21,000	0
WATER	AP-106	9/1/99	9/1/99	3,000	0
WCE88	AP-106	9/1/99	9/1/99	11,000	0
WATER	SY-102	9/1/99	9/1/99	15,000	0
EVAPF	AP-106	9/1/99	9/1/99	10,000	0
WCW88	SY-102	9/1/99	9/1/99	58,000	0
WNW88	SY-102	9/1/99	9/1/99	85,000	0
AW-102	242-A	9/12/99	9/14/99	391,800	17
242-A	AW-106	9/12/99	9/14/99	320,300	17
242-A	LERF	9/12/99	9/14/99	71,534	0
AP-106	AW-102	9/14/99	9/19/99	917,500	0
WATER	AP-106	9/20/99	9/20/99	35,000	0
WATER	AP-106	9/20/99	9/20/99	35,000	0
1NS96	AW-105	10/1/99	10/1/99	750	250
WATER	SY-102	10/1/99	10/1/99	15,000	0
SPN87	SY-102	10/1/99	10/1/99	7,000	0
1KL96	AW-105	10/1/99	10/1/99	30,000	0
WATER	SY-102	10/1/99	10/1/99	11,000	0
TNS88	AP-106	10/1/99	10/1/99	750	250
WESF	AP-106	10/1/99	10/1/99	5,000	0
WCE88	AP-106	10/1/99	10/1/99	11,000	0
WCW88	SY-102	10/1/99	10/1/99	43,000	0
1FL96	AW-105	10/1/99	10/1/99	40,000	0
WATER	AP-106	10/1/99	10/1/99	3,000	0
ZNL87	SY-102	10/1/99	10/1/99	4,000	0
TAL88	AP-106	10/1/99	10/1/99	6,000	0
PXTCO	AP-106	10/1/99	10/1/99	5,000	0
EVAPF	AP-106	10/1/99	10/1/99	10,000	0
34L87	AP-106	10/1/99	10/1/99	10,000	0
WNW88	SY-102	10/1/99	10/1/99	62,000	0
WATER	SY-102	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	17,000	0
WATER	AP-106	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	13,000	0
WATER	AP-106	10/2/99	10/2/99	5,000	0
AW-106	AN-101	10/1/99	10/2/99	320,300	15
WATER	SY-102	11/1/99	11/1/99	12,000	0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	11/1/99	11/1/99	10,000	0
EVAPF	AP-106	11/1/99	11/1/99	10,000	0
WCW88	SY-102	11/1/99	11/1/99	39,000	0
WNW88	SY-102	11/1/99	11/1/99	50,000	0
WATER	AP-106	11/1/99	11/1/99	3,000	0
WCE88	AP-106	11/1/99	11/1/99	11,000	0
EVAPF	AW-102	11/17/99	11/17/99	35,000	0
WATER	SY-102	12/1/99	12/1/99	10,000	0
WCE88	AP-106	12/1/99	12/1/99	6,000	0
WATER	AP-106	12/1/99	12/1/99	1,000	0
EVAPF	AP-106	12/1/99	12/1/99	10,000	0
WNW88	SY-102	12/1/99	12/1/99	43,000	0
WATER	SY-102	12/1/99	12/1/99	11,000	0
WCW88	SY-102	12/1/99	12/1/99	39,000	0
EVAPF	AW-102	12/3/99	12/3/99	35,000	0
WATER	SY-102	1/1/00	1/1/00	9,000	0
WATER	SY-102	1/1/00	1/1/00	9,000	0
SPN87	SY-102	1/1/00	1/1/00	6,000	0
EVAPF	AP-106	1/1/00	1/1/00	10,000	0
WCE88	AP-106	1/1/00	1/1/00	6,000	0
WCW88	SY-102	1/1/00	1/1/00	26,000	0
WATER	AP-106	1/1/00	1/1/00	1,000	0
34L87	AP-106	1/1/00	1/1/00	10,000	0
WNW88	SY-102	1/1/00	1/1/00	37,000	0
WATER	AP-106	1/1/00	1/1/00	4,000	0
TAL88	AP-106	1/1/00	1/1/00	6,000	0
WATER	AP-106	1/20/00	1/20/00	35,000	0
WATER	AP-106	1/20/00	1/20/00	35,000	0
WATER	SY-102	2/1/00	2/1/00	4,000	0
WATER	SY-102	2/1/00	2/1/00	8,000	0
WCE88	AP-106	2/1/00	2/1/00	5,000	0
EVAPF	AP-106	2/1/00	2/1/00	10,000	0
WNW88	SY-102	2/1/00	2/1/00	30,000	0
WCW88	SY-102	2/1/00	2/1/00	17,000	0
WATER	AP-106	2/1/00	2/1/00	1,000	0
AW-105	AP-106	2/15/00	2/16/00	226,200	8
WATER	SY-102	3/1/00	3/1/00	3,000	0
EVAPF	AP-106	3/1/00	3/1/00	10,000	0
WATER	AP-106	3/1/00	3/1/00	5,000	0
34L87	AP-106	3/1/00	3/1/00	10,000	0
WATER	AP-106	3/1/00	3/1/00	1,000	0
WCE88	AP-106	3/1/00	3/1/00	3,000	0
WCW88	SY-102	3/1/00	3/1/00	13,000	0
WATER	SY-102	3/1/00	3/1/00	4,000	0
WNW88	SY-102	3/1/00	3/1/00	17,000	0
SY-102	AW-105	3/15/00	3/18/00	750,000	31
AW-102	242-A	3/18/00	3/23/00	987,600	39
242-A	AW-106	3/18/00	3/23/00	633,600	39
242-A	LERF	3/18/00	3/23/00	354,000	0
AW-106	AW-102	3/23/00	3/26/00	633,500	27
WATER	AP-106	4/1/00	4/1/00	1,000	0
WCE88	AP-106	4/1/00	4/1/00	3,000	0
EVAPF	AP-106	4/1/00	4/1/00	10,000	0
TAL88	AP-106	4/1/00	4/1/00	6,000	0
SPN87	SY-102	4/1/00	4/1/00	6,000	0
WATER	SY-102	4/1/00	4/1/00	2,000	0

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	4/1/00	4/1/00	13,000	0
WATER	SY-102	4/1/00	4/1/00	3,000	0
WCW88	SY-102	4/1/00	4/1/00	9,000	0
AW-102	242-A	4/9/00	4/13/00	633,500	27
242-A	AW-106	4/9/00	4/13/00	424,100	27
242-A	LERF	4/9/00	4/13/00	209,400	0
WATER	SY-102	5/1/00	5/1/00	3,000	0
WATER	AP-106	5/1/00	5/1/00	4,000	0
34L87	AP-106	5/1/00	5/1/00	10,000	0
WATER	SY-102	5/1/00	5/1/00	1,000	0
WNW88	SY-102	5/1/00	5/1/00	11,000	0
WCW88	SY-102	5/1/00	5/1/00	6,000	0
WATER	AP-106	5/1/00	5/1/00	1,000	0
WCE88	AP-106	5/1/00	5/1/00	3,000	0
EVAPF	AP-106	5/1/00	5/1/00	10,000	0
AP-103	AW-102	5/2/00	5/6/00	917,600	0
AW-106	AN-101	5/15/00	5/17/00	409,100	19
AW-102	242-A	5/21/00	5/26/00	917,900	39
242-A	AW-106	5/21/00	5/26/00	666,500	39
242-A	LERF	5/21/00	5/26/00	251,300	0
WNW88	SY-102	6/1/00	6/1/00	4,000	0
WATER	SY-102	6/1/00	6/1/00	1,000	0
EVAPF	AP-106	6/1/00	6/1/00	10,000	0
WCE88	AP-106	6/1/00	6/1/00	3,000	0
WATER	AP-106	6/1/00	6/1/00	1,000	0
AP-103	AP-106	6/1/00	6/1/00	99,463	4
AP-102	AP-103	6/15/00	6/20/00	1,070,000	0
WCE88	AP-106	7/1/00	7/1/00	3,000	0
WATER	AP-106	7/1/00	7/1/00	1,000	0
EVAPF	AP-106	7/1/00	7/1/00	10,000	0
TAL88	AP-106	7/1/00	7/1/00	5,000	0
SPN87	SY-102	7/1/00	7/1/00	6,000	0
34L87	AP-106	7/1/00	7/1/00	10,000	0
WATER	AP-106	7/1/00	7/1/00	4,000	0
WATER	SY-102	7/1/00	7/1/00	1,000	0
WNW88	SY-102	7/1/00	7/1/00	4,000	0
AP-107	AW-102	7/2/00	7/6/00	917,900	0
AW-106	AN-106	7/10/00	7/13/00	681,400	32
AW-102	242-A	7/21/00	7/26/00	918,100	38
242-A	AW-106	7/21/00	7/26/00	590,000	38
242-A	LERF	7/21/00	7/26/00	328,100	0
EVAPF	AP-106	8/1/00	8/1/00	10,000	0
WATER	SY-102	8/1/00	8/1/00	1,000	0
WCE88	AP-106	8/1/00	8/1/00	2,000	0
WNW88	SY-102	8/1/00	8/1/00	4,000	0
EVAPF	AW-102	8/3/00	8/3/00	35,000	0
AZ-101	AY-101	8/17/00	8/20/00	685,000	0
AZ-101	AP-107	8/20/00	8/20/00	0	0
WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0
EVAPF	AP-106	9/1/00	9/1/00	10,000	0
WCE88	AP-106	9/1/00	9/1/00	1,000	0
AW-105	AP-106	9/1/00	9/3/00	500,000	21
AP-106	AW-102	9/1/00	9/5/00	883,200	2
ZNL87	SY-102	10/1/00	10/1/00	4,000	0
TNS88	AP-106	10/1/00	10/1/00	750	250
INS96	AW-105	10/1/00	10/1/00	13,502	4,498

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
TAL88	AP-106	10/1/00	10/1/00	23,000	0
34L87	AP-106	10/1/00	10/1/00	50,000	0
34L87	AP-106	10/1/00	10/1/00	7,000	0
WESF	AP-106	10/1/00	10/1/00	5,000	0
PXTCO	AP-106	10/1/00	10/1/00	5,000	0
SPN87	SY-102	10/1/00	10/1/00	25,000	0
EVAPF	AP-106	10/1/00	10/1/00	120,000	0
WATER	SY-102	10/2/00	10/2/00	1,000	0
WATER	SY-102	10/2/00	10/2/00	5,000	0
WATER	AP-106	10/2/00	10/2/00	3,000	0
WATER	AP-106	10/2/00	10/2/00	22,000	0
IKL96	AW-105	10/1/00	10/2/00	302,000	0
WATER	AW-105	10/2/00	10/2/00	7,000	0
WATER	AW-105	10/2/00	10/3/00	132,000	0
WATER	AP-106	10/3/00	10/3/00	5,000	0
AW-106	AP-107	10/1/00	10/4/00	589,900	27
EVAPF	AW-102	10/4/00	10/4/00	50,000	0
AZ-101	AP-106	10/9/00	10/10/00	143,200	0
WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0
EVAPF	AW-102	11/3/00	11/3/00	35,000	0
AW-102	242-A	3/5/01	3/10/01	1,003,000	38
242-A	AW-106	3/5/01	3/10/01	643,300	38
242-A	LERF	3/5/01	3/10/01	360,000	0
AW-106	AW-102	3/11/01	3/15/01	643,200	26
AW-102	242-A	3/29/01	4/1/01	643,200	26
242-A	AW-106	3/29/01	4/1/01	412,800	26
242-A	LERF	3/29/01	4/1/01	230,400	0
AW-106	AW-102	4/1/01	4/3/01	412,700	18
AW-102	242-A	4/17/01	4/19/01	412,800	18
242-A	AW-106	4/17/01	4/19/01	305,100	18
242-A	LERF	4/17/01	4/19/01	107,700	0
AP-106	AW-102	4/20/01	4/24/01	775,900	0
AZ-101	AP-106	4/24/01	4/25/01	140,200	0
WASH-WATER	AZ-101	4/26/01	4/26/01	146,000	0
WATER	AW-102	5/1/01	5/1/01	35,000	0
EVAPF	AW-102	5/3/01	5/3/01	35,000	0
AW-102	242-A	5/9/01	5/13/01	846,000	31
242-A	AW-106	5/9/01	5/13/01	541,500	31
242-A	LERF	5/9/01	5/13/01	304,500	0
AW-106	AW-102	5/14/01	5/18/01	846,500	35
AW-102	242-A	6/1/01	6/6/01	846,300	35
242-A	AW-106	6/1/01	6/6/01	543,800	35
242-A	LERF	6/1/01	6/6/01	302,500	0
AZ-101	AP-106	6/15/01	6/15/01	142,900	0
WASH-WATER	AZ-101	6/16/01	6/17/01	138,200	0
AW-106	AP-107	7/1/01	7/3/01	444,900	20
AW-105	AW-102	7/2/01	7/5/01	655,900	0
AW-102	242-A	7/20/01	7/24/01	656,200	24
242-A	AW-106	7/20/01	7/24/01	421,400	24
242-A	LERF	7/20/01	7/24/01	234,800	0
AW-106	AW-102	7/24/01	7/27/01	520,100	21
AW-102	242-A	8/10/01	8/12/01	520,100	21
242-A	AW-106	8/10/01	8/12/01	334,100	21
242-A	LERF	8/10/01	8/12/01	186,000	0
AW-106	AW-102	8/12/01	8/14/01	334,000	14
AW-102	242-A	8/28/01	8/30/01	334,100	14

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	8/28/01	8/30/01	242,700	14
242-A	LERF	8/28/01	8/30/01	91,401	0
ZNL87	SY-102	10/1/01	10/1/01	4,000	0
TNS88	AP-106	10/1/01	10/1/01	750	250
WESF	AP-106	10/1/01	10/1/01	5,000	0
SPN87	SY-102	10/1/01	10/1/01	25,000	0
TAL88	AP-106	10/1/01	10/1/01	23,000	0
WATER	AP-106	10/1/01	10/1/01	35,000	0
34L87	AP-106	10/1/01	10/1/01	50,000	0
EVAPF	AP-106	10/1/01	10/1/01	120,000	0
WASH-WATER	AP-104	10/1/01	10/2/01	200,000	0
WATER	SY-102	10/2/01	10/2/01	5,000	0
WATER	AP-106	10/2/01	10/2/01	22,000	0
WATER	AP-106	10/2/01	10/2/01	5,000	0
AW-106	AW-104	10/15/01	10/16/01	242,700	11
AP-104	AP-102	10/15/01	10/17/01	386,500	39
AP-102	AP-106	11/1/01	11/3/01	386,500	37
EVAPF	AW-102	11/3/01	11/3/01	35,000	0
AP-106	AW-102	11/3/01	11/7/01	918,500	270
AZ-102	AY-101	11/14/01	11/15/01	204,000	0
AZ-102	AP-107	11/15/01	11/16/01	0	0
WASH-WATER	AZ-102	11/16/01	11/17/01	213,000	0
AN-105	AP-102	11/16/01	11/19/01	542,400	7,895
LERF	AN-105-PUMP	11/16/01	11/19/01	154,100	0
AN-105	AP-102	11/16/01	11/19/01	686,500	294
AP-108	AP-106	11/21/01	11/21/01	0	0
AN-105	AP-104	11/20/01	11/23/01	542,400	7,895
LERF	AN-105-PUMP	11/20/01	11/23/01	154,100	0
AN-105	AP-104	11/20/01	11/23/01	686,500	294
WASH-WATER	AP-108	12/6/01	12/7/01	200,000	0
AP-108	AP-106	12/20/01	12/20/01	200,000	1
AP-107	AN-105	12/20/01	12/23/01	1,116,000	87
AZ-102	AP-106	1/5/02	1/6/02	317,500	0
WASH-WATER	AZ-102	1/8/02	1/9/02	213,000	0
AZ-102	AP-106	2/27/02	2/28/02	205,900	0
WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0
AP-102	AP-108	3/11/02	3/15/02	686,500	285
AN-104	AP-102	3/16/02	3/19/02	502,200	12,513
LERF	AN-104-PUMP	3/16/02	3/19/02	200,800	0
AN-104	AP-102	3/16/02	3/19/02	684,700	702
AZ-102	AP-106	4/20/02	4/21/02	209,900	0
WASH-WATER	AZ-102	4/22/02	4/23/02	213,000	0
AW-102	242-A	5/7/02	5/12/02	950,600	34
242-A	AW-106	5/7/02	5/12/02	608,600	34
242-A	LERF	5/7/02	5/12/02	342,000	0
AW-106	AW-102	5/12/02	5/15/02	608,500	22
AZ-101	PIHLW FEED TANK	5/17/02	5/17/02	134,300	5,079
AW-102	242-A	5/30/02	6/2/02	608,600	22
242-A	AW-106	5/30/02	6/2/02	389,800	22
242-A	LERF	5/30/02	6/2/02	218,800	0
AW-106	AW-102	6/2/02	6/4/02	389,700	15
AW-102	242-A	6/18/02	6/20/02	389,800	15
242-A	AW-106	6/18/02	6/20/02	249,700	15
242-A	LERF	6/18/02	6/20/02	140,100	0
AW-106	AW-102	6/20/02	6/21/02	249,600	10
AW-102	242-A	7/5/02	7/6/02	249,700	10

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	7/5/02	7/6/02	159,700	10
242-A	LERF	7/5/02	7/6/02	90,000	0
AW-106	AW-102	7/6/02	7/7/02	159,700	7
AW-102	AW-106	7/8/02	7/9/02	159,800	7
AP-106	AW-102	7/10/02	7/15/02	916,000	0
AZ-102	AP-106	7/15/02	7/16/02	211,600	0
WASH-WATER	AZ-102	7/17/02	7/18/02	118,000	0
WESF	AP-106	10/1/02	10/1/02	5,000	0
ZNL87	SY-102	10/1/02	10/1/02	3,000	0
TNS88	AP-106	10/1/02	10/1/02	750	250
SPN87	SY-102	10/1/02	10/1/02	25,000	0
TAL88	AP-106	10/1/02	10/1/02	24,000	0
WATER	AP-106	10/1/02	10/1/02	35,000	0
34L87	AP-106	10/1/02	10/1/02	50,000	0
EVAPF	AP-106	10/1/02	10/1/02	120,000	0
WATER	AP-106	10/2/02	10/2/02	22,000	0
WATER	SY-102	10/2/02	10/2/02	5,000	0
WATER	AP-106	10/2/02	10/2/02	5,000	0
WATER	SY-102	10/2/02	10/2/02	1,000	0
EVAPF	AW-102	10/4/02	10/4/02	50,000	0
AW-102	242-A	10/23/02	10/28/02	966,000	34
242-A	AW-106	10/23/02	10/28/02	618,000	34
242-A	LERF	10/23/02	10/28/02	348,000	0
AW-106	AW-102	10/28/02	11/1/02	777,700	30
EVAPF	AW-102	11/3/02	11/3/02	35,000	0
AW-102	242-A	11/15/02	11/20/02	812,800	31
242-A	AW-106	11/15/02	11/20/02	520,600	31
242-A	LERF	11/15/02	11/20/02	292,100	0
AW-106	AW-102	11/20/02	11/22/02	520,500	21
AW-102	242-A	12/6/02	12/9/02	520,700	21
242-A	AW-106	12/6/02	12/9/02	334,700	21
242-A	LERF	12/6/02	12/9/02	186,000	0
AW-106	AW-102	12/9/02	12/10/02	334,600	15
AW-102	242-A	12/25/02	12/26/02	334,700	15
242-A	AW-106	12/25/02	12/26/02	262,400	15
242-A	LERF	12/25/02	12/26/02	72,297	0
AP-104	AP-108	1/5/03	1/9/03	686,500	285
AN-104	AP-104	1/9/03	1/12/03	502,200	12,513
LERF	AN-104-PUMP	1/9/03	1/12/03	200,800	0
AN-104	AP-104	1/9/03	1/12/03	684,700	702
AW-106	AN-104	2/11/03	2/13/03	262,400	12
PIHLW FEED TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079
AZ-101	PIHLW FEED TANK	2/21/03	2/21/03	134,300	5,079
AY-102	AZ-101	2/23/03	2/27/03	819,600	16,032
RETURN 2	AP-107	3/31/03	3/31/03	8,671	331
AP-102	AP-108	9/20/03	9/23/03	684,700	686
AW-101	AP-102	9/24/03	9/28/03	537,200	13,013
LERF	AW-101-PUMP	9/24/03	9/28/03	308,100	0
AW-101	AP-102	9/24/03	9/28/03	845,400	13,013
34L87	AP-106	10/1/03	10/1/03	7,000	0
TNS88	AP-106	10/1/03	10/1/03	750	250
WESF	AP-106	10/1/03	10/1/03	5,000	0
ZNL87	SY-102	10/1/03	10/1/03	3,000	0
SPN87	SY-102	10/1/03	10/1/03	25,000	0
TAL88	AP-106	10/1/03	10/1/03	24,000	0
WATER	AP-106	10/1/03	10/1/03	35,000	0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
34L87	AP-106	10/1/03	10/1/03	50,000	0
EVAPF	AP-106	10/1/03	10/1/03	120,000	0
WATER	AP-106	10/2/03	10/2/03	22,000	0
WATER	SY-102	10/2/03	10/2/03	5,000	0
WATER	AP-106	10/2/03	10/2/03	3,000	0
WATER	AP-106	10/2/03	10/2/03	5,000	0
AZ-101	AP-106	10/3/03	10/5/03	326,500	0
AZ-101	AW-105	10/5/03	10/6/03	296,200	0
WASH-WATER	AZ-101	10/6/03	10/8/03	324,000	0
AP-106	AW-102	10/5/03	10/9/03	916,300	0
AW-105	AP-106	10/10/03	10/12/03	296,200	0
EVAPF	AW-102	11/3/03	11/3/03	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079
AZ-102	PIHLW FEED TANK	11/14/03	11/14/03	127,500	5,216
AZ-101	AP-106	11/26/03	11/28/03	320,000	0
WASH-WATER	AZ-101	11/29/03	12/1/03	324,000	0
RETURN 2	AP-107	1/28/04	1/28/04	8,671	331
SX-113	SY-103	12/31/03	4/6/04	10,322	399
AW-102	242-A	4/8/04	4/12/04	951,400	33
242-A	AW-106	4/8/04	4/12/04	609,400	33
242-A	LERF	4/8/04	4/12/04	342,000	0
AW-106	AW-102	4/13/04	4/16/04	609,300	22
AW-102	242-A	4/30/04	5/3/04	609,400	22
242-A	AW-106	4/30/04	5/3/04	389,500	22
242-A	LERF	4/30/04	5/3/04	220,000	0
AW-106	AW-102	5/3/04	5/5/04	389,400	14
AW-102	242-A	5/19/04	5/21/04	389,500	14
242-A	AW-106	5/19/04	5/21/04	249,100	14
242-A	LERF	5/19/04	5/21/04	140,400	0
AW-106	AW-102	5/21/04	5/22/04	249,000	9
AW-102	242-A	6/5/04	6/7/04	249,100	9
242-A	AW-106	6/5/04	6/7/04	159,100	9
242-A	LERF	6/5/04	6/7/04	90,000	0
AW-106	AW-102	6/7/04	6/7/04	159,100	6
AW-102	AW-106	6/9/04	6/10/04	159,200	6
AP-106	AW-102	6/10/04	6/14/04	794,200	0
AZ-101	AP-106	6/14/04	6/16/04	322,300	0
AP-104	AP-108	6/13/04	6/16/04	684,700	686
WASH-WATER	AZ-101	6/17/04	6/19/04	433,600	0
AW-101	AP-104	6/17/04	6/21/04	537,200	13,013
LERF	AW-101-PUMP	6/17/04	6/21/04	308,100	0
AW-101	AP-104	6/17/04	6/21/04	845,400	13,013
AW-102	242-A	6/29/04	7/3/04	794,200	27
242-A	AW-106	6/29/04	7/3/04	508,000	27
242-A	LERF	6/29/04	7/3/04	286,200	0
AN-104	AW-101	7/5/04	7/6/04	256,000	12
AW-106	AW-102	7/4/04	7/7/04	667,100	24
AW-102	242-A	7/22/04	7/25/04	667,100	24
242-A	AW-106	7/22/04	7/25/04	427,100	24
242-A	LERF	7/22/04	7/25/04	240,000	0
AW-106	AW-102	7/25/04	7/27/04	427,100	16
PIHLW FEED TANK	HLW-CONTRACTOR	11/14/03	8/9/04	127,500	5,216
AZ-102	PIHLW FEED TANK	8/9/04	8/10/04	127,500	5,216
AW-102	242-A	8/10/04	8/12/04	427,200	16
242-A	AW-106	8/10/04	8/12/04	272,400	16
242-A	LERF	8/10/04	8/12/04	154,700	0

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-106	AW-102	8/12/04	8/14/04	272,400	11
RETURN 2	AP-107	8/29/04	8/29/04	8,673	332
AW-102	242-A	8/28/04	8/29/04	272,400	11
242-A	AW-106	8/28/04	8/29/04	174,600	11
242-A	LERF	8/28/04	8/29/04	97,828	0
AW-106	AW-102	8/29/04	8/30/04	174,600	8
AW-102	AP-106	8/31/04	9/1/04	174,700	7
C-104	AY-102	8/1/04	9/8/04	279,100	9,724
WESF	AP-106	10/1/04	10/1/04	5,000	0
TNS88	AP-106	10/1/04	10/1/04	750	250
ZNL87	SY-102	10/1/04	10/1/04	3,000	0
SPN87	SY-102	10/1/04	10/1/04	2,000	0
TAL88	AP-106	10/1/04	10/1/04	22,000	0
WATER	AP-106	10/1/04	10/1/04	35,000	0
34L87	AP-106	10/1/04	10/1/04	50,000	0
SPN87	SY-102	10/1/04	10/1/04	23,000	0
TAL88	AP-106	10/1/04	10/1/04	2,000	0
EVAPP	AP-106	10/1/04	10/1/04	120,000	0
IFL96	AW-105	10/1/04	10/2/04	200,000	0
WATER	AP-106	10/2/04	10/2/04	22,000	0
WATER	AP-106	10/2/04	10/2/04	4,000	0
WATER	SY-102	10/2/04	10/2/04	1,000	0
WATER	AW-105	10/2/04	10/2/04	88,000	0
WATER	SY-102	10/2/04	10/3/04	5,000	0
WATER	AP-106	10/3/04	10/3/04	1,000	0
EVAPP	AW-102	10/4/04	10/4/04	50,000	0
EVAPP	AW-102	11/3/04	11/3/04	35,000	0
AX-103	AN-104	8/7/04	12/24/04	310,200	2,846
RETURN 2	AP-107	1/16/05	1/16/05	8,670	332
C-103	AN-104	12/24/04	3/9/05	271,800	10,423
AP-102	AP-108	3/7/05	3/11/05	740,300	1,581
WASH-WATER	AP-102	3/26/05	3/26/05	136,900	0
AP-102	AP-106	4/9/05	4/9/05	243,100	10,337
AY-101	AP-102	4/10/05	4/11/05	283,600	12
AP-106	AW-102	4/9/05	4/13/05	832,200	0
PIHLW FEED TANK	HLW-CONTRACTOR	8/10/04	5/6/05	127,500	5,216
AZ-101	PIHLW FEED TANK	5/6/05	5/7/05	127,200	3,269
RETURN 2	AP-107	5/31/05	5/31/05	8,672	331
A-102	AN-104	3/9/05	6/28/05	100,600	744
AP-106	AW-102	7/15/05	7/15/05	53,172	2
AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360
AN-104	AN-105	8/16/05	8/16/05	0	0
SY-102	AP-106	8/15/05	8/16/05	385,200	15
AN-104	AW-104	8/16/05	8/17/05	22,739	580
AN-104	AW-103	8/17/05	8/17/05	3,900	99
AN-104	AP-105	8/17/05	8/17/05	3,901	99
AN-104	AP-103	8/17/05	8/17/05	42,517	1,082
AN-104	AP-101	8/17/05	8/18/05	217,000	5,521
AN-104	AN-101	8/18/05	8/18/05	0	0
AN-104	AN-106	8/18/05	8/19/05	68,852	1,750
AN-104	AW-105	8/19/05	8/21/05	457,500	11,620
TNS88	AP-106	10/1/05	10/1/05	750	250
WESF	AP-106	10/1/05	10/1/05	5,000	0
ZNL87	SY-102	10/1/05	10/1/05	3,000	0
TAL88	AP-106	10/1/05	10/1/05	24,000	0
SPN87	SY-102	10/1/05	10/1/05	25,000	0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-106	10/1/05	10/1/05	35,000	0
34L87	AP-106	10/1/05	10/1/05	50,000	0
EVAPF	AP-106	10/1/05	10/1/05	120,000	0
WATER	SY-102	10/2/05	10/2/05	1,000	0
WATER	AP-106	10/2/05	10/2/05	22,000	0
WATER	AP-106	10/2/05	10/2/05	5,000	0
WATER	SY-102	10/2/05	10/2/05	5,000	0
RETURN 2	AP-107	10/9/05	10/9/05	8,672	330
AP-104	AP-108	10/11/05	10/15/05	740,300	1,581
AW-102	242-A	10/11/05	10/16/05	970,300	35
242-A	AW-106	10/11/05	10/16/05	622,300	35
242-A	LERF	10/11/05	10/16/05	348,000	0
AW-106	AW-102	10/16/05	10/19/05	622,200	24
WASH-WATER	AP-104	10/30/05	10/30/05	136,900	0
EVAPF	AW-102	11/3/05	11/3/05	35,000	0
AW-102	242-A	11/2/05	11/5/05	622,400	24
242-A	AW-106	11/2/05	11/5/05	399,800	24
242-A	LERF	11/2/05	11/5/05	222,500	0
AW-106	AW-102	11/5/05	11/7/05	399,500	16
AP-104	AP-106	11/13/05	11/13/05	243,100	10,337
AN-107	AP-104	11/14/05	11/16/05	481,700	22
LERF	AN-107-PUMP	11/14/05	11/16/05	72,259	0
AN-107	AP-104	11/14/05	11/16/05	554,000	22
PIHLW FEED TANK	HLW-CONTRACTOR	5/7/05	11/21/05	127,200	3,269
AZ-101	PIHLW FEED TANK	11/21/05	11/21/05	127,200	3,269
AW-102	242-A	11/22/05	11/24/05	434,600	17
242-A	AW-106	11/22/05	11/24/05	278,600	17
242-A	LERF	11/22/05	11/24/05	156,000	0
AW-106	AW-102	11/24/05	11/25/05	278,600	12
RETURN 2	AP-107	11/29/05	11/29/05	8,673	330
AW-102	242-A	12/9/05	12/11/05	278,600	12
242-A	AW-106	12/9/05	12/11/05	202,100	12
242-A	LERF	12/9/05	12/11/05	76,590	0
AW-106	AW-101	12/11/05	12/12/05	202,000	9
AP-106	AW-102	12/12/05	12/16/05	775,500	0
RETURN 2	AP-107	1/18/06	1/18/06	8,677	330
RETURN 2	AP-107	3/10/06	3/10/06	8,677	330
RETURN 2	AP-107	4/29/06	4/29/06	8,677	330
AW-102	242-A	5/17/06	5/21/06	775,600	29
242-A	AW-106	5/17/06	5/21/06	497,600	29
242-A	LERF	5/17/06	5/21/06	278,000	0
AW-106	AW-102	5/21/06	5/23/06	497,500	20
PIHLW FEED TANK	HLW-CONTRACTOR	11/21/05	6/7/06	127,200	3,269
AZ-101	PIHLW FEED TANK	6/7/06	6/8/06	127,200	3,269
AW-102	242-A	6/6/06	6/9/06	497,600	20
242-A	AW-106	6/6/06	6/9/06	318,100	20
242-A	LERF	6/6/06	6/9/06	179,500	0
AW-106	AW-102	6/9/06	6/10/06	318,100	14
AP-108	LAW-CONTRACTOR-2	6/1/02	6/13/06	4,223,000	5,047
AP-102	AP-108	6/13/06	6/14/06	277,300	552
AN-107	AP-102	6/15/06	6/17/06	481,700	22
LERF	AN-107-PUMP	6/15/06	6/17/06	72,260	0
AN-107	AP-102	6/15/06	6/17/06	554,000	22
RETURN 2	AP-107	6/18/06	6/18/06	8,676	330
AW-102	242-A	6/25/06	6/26/06	318,100	14
242-A	AW-106	6/25/06	6/26/06	222,300	14

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	LERF	6/25/06	6/26/06	95,841	0
AW-106	AW-101	6/26/06	6/27/06	222,300	10
AZ-102	AP-106	6/27/06	6/28/06	159,800	0
WASH-WATER	AZ-102	6/28/06	6/29/06	324,000	0
RETURN 2	AP-107	7/24/06	7/24/06	8,678	328
AP-108	LAW-CONTRACTOR-2	6/15/06	8/13/06	277,300	555
AP-104	AP-108	8/13/06	8/14/06	171,100	337
AZ-102	AP-106	8/17/06	8/19/06	320,100	0
WASH-WATER	AZ-102	8/20/06	8/22/06	324,000	0
RETURN 2	AP-107	9/7/06	9/7/06	8,673	329
AP-104	AP-108	9/10/06	9/12/06	381,800	753
AN-102	AP-104	9/13/06	9/16/06	443,500	21
LERF	AN-102-PUMP	9/13/06	9/16/06	266,100	0
AN-102	AP-104	9/13/06	9/16/06	709,700	21
AN-104	AN-107	9/15/06	9/17/06	305,600	7,751
34L87	AP-106	10/1/06	10/1/06	7,000	0
TNS88	AP-106	10/1/06	10/1/06	750	250
WESP	AP-106	10/1/06	10/1/06	5,000	0
TAL88	AP-106	10/1/06	10/1/06	25,000	0
SPN87	SY-102	10/1/06	10/1/06	25,000	0
34L87	AP-106	10/1/06	10/1/06	50,000	0
WATER	AP-106	10/1/06	10/1/06	35,000	0
EVAPF	AP-106	10/1/06	10/1/06	120,000	0
WATER	AP-106	10/2/06	10/2/06	3,000	0
WATER	AP-106	10/2/06	10/2/06	22,000	0
WATER	AP-106	10/2/06	10/2/06	5,000	0
WATER	SY-102	10/2/06	10/2/06	5,000	0
EVAPF	AW-102	10/4/06	10/4/06	50,000	0
AP-106	AW-102	10/1/06	10/5/06	749,800	0
AZ-102	AP-106	10/10/06	10/12/06	322,700	0
WASH-WATER	AZ-102	10/13/06	10/14/06	150,200	0
RETURN 2	AP-107	11/2/06	11/2/06	8,683	330
EVAPF	AW-102	11/3/06	11/3/06	35,000	0
C-105	AN-104	6/28/05	11/15/06	827,500	31,875
PHLW FEED TANK	HLW-CONTRACTOR	6/8/06	12/22/06	127,200	3,269
AZ-101	PHLW FEED TANK	12/22/06	12/23/06	127,200	3,269
RETURN 2	AP-107	12/28/06	12/28/06	8,683	330
AP-102	AP-108	1/21/07	1/24/07	559,200	575
AN-103	AP-102	1/25/07	1/28/07	436,600	28,133
LERF	AN-103-PUMP	1/25/07	1/28/07	264,900	0
AN-103	AP-102	1/25/07	1/28/07	738,300	549
RETURN 2	AP-107	2/23/07	2/23/07	8,670	330
A-104	AN-104	11/15/06	2/24/07	29,827	832
C-204	AN-104	2/24/07	3/2/07	3,775	55
C-201	AN-104	3/2/07	3/8/07	2,464	59
AW-102	242-A	4/4/07	4/8/07	834,900	29
242-A	AW-106	4/4/07	4/8/07	534,900	29
242-A	LERF	4/4/07	4/8/07	300,000	0
AW-106	AW-102	4/9/07	4/12/07	534,800	19
AX-104	AN-104	3/8/07	4/13/07	18,516	572
RETURN 2	AP-107	4/22/07	4/22/07	8,672	330
AW-102	242-A	4/26/07	4/29/07	534,900	19
242-A	AW-106	4/26/07	4/29/07	342,900	19
242-A	LERF	4/26/07	4/29/07	192,000	0
AW-106	AW-102	4/29/07	4/30/07	342,800	13
AW-102	242-A	5/15/07	5/16/07	342,900	13

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	5/15/07	5/16/07	217,700	13
242-A	LERF	5/15/07	5/16/07	125,200	0
AW-106	AW-102	5/16/07	5/17/07	217,700	8
AW-102	AP-106	5/18/07	5/20/07	217,800	8
RETURN 2	AP-107	6/19/07	6/19/07	8,672	330
PIHLW FEED TANK	HLW-CONTRACTOR	12/23/06	7/9/07	127,200	3,269
AZ-101	PIHLW FEED TANK	7/9/07	7/9/07	127,200	3,269
AX-102	AN-104	4/13/07	8/1/07	87,597	897
AP-104	AP-108	8/4/07	8/8/07	709,600	72
AN-103	AP-104	8/9/07	8/12/07	436,600	28,133
LERF	AN-103-PUMP	8/9/07	8/12/07	264,900	0
AN-103	AP-104	8/9/07	8/12/07	738,300	549
RETURN 2	AP-107	8/25/07	8/25/07	8,676	330
WESF	AP-106	10/1/07	10/1/07	5,000	0
TNS88	AP-106	10/1/07	10/1/07	750	250
TAL88	AP-106	10/1/07	10/1/07	25,000	0
SPN87	SY-102	10/1/07	10/1/07	25,000	0
34L87	AP-106	10/1/07	10/1/07	50,000	0
WATER	AP-106	10/1/07	10/1/07	35,000	0
EVAPF	AP-106	10/1/07	10/1/07	120,000	0
WATER	AP-106	10/2/07	10/2/07	5,000	0
WATER	SY-102	10/2/07	10/2/07	5,000	0
WATER	AP-106	10/2/07	10/2/07	22,000	0
AP-106	AW-102	10/1/07	10/5/07	803,200	274
EVAPF	AW-102	11/3/07	11/3/07	35,000	0
AN-104	AN-107	11/5/07	11/8/07	658,300	12,731
AN-104	AN-102	11/8/07	11/11/07	441,700	8,533
SY-101	AN-103	11/10/07	11/14/07	1,105,000	11,018
AN-103	AN-102	11/15/07	11/15/07	57,642	646
RETURN 2	AP-107	12/2/07	12/2/07	8,675	329
PIHLW FEED TANK	HLW-CONTRACTOR	7/9/07	1/23/08	127,200	3,269
AZ-102	PIHLW FEED TANK	1/23/08	1/24/08	137,400	4,760
RETURN 2	AP-107	3/9/08	3/9/08	8,675	329
AW-102	242-A	4/3/08	4/7/08	835,100	29
242-A	AW-106	4/3/08	4/7/08	535,100	29
242-A	LERF	4/3/08	4/7/08	300,000	0
AW-106	AW-102	4/8/08	4/11/08	535,000	19
AP-108	LAW-CONTRACTOR-2	8/15/06	4/11/08	1,822,000	1,786
AP-102	AP-108	4/11/08	4/15/08	738,300	557
AW-102	242-A	4/25/08	4/28/08	535,100	19
242-A	AW-106	4/25/08	4/28/08	343,100	19
242-A	LERF	4/25/08	4/28/08	192,000	0
AW-106	AW-102	4/28/08	4/29/08	343,100	13
S-103	SY-101	12/31/03	5/7/08	712,300	1,011
AW-102	242-A	5/13/08	5/15/08	343,100	13
242-A	AW-106	5/13/08	5/15/08	218,000	13
242-A	LERF	5/13/08	5/15/08	125,100	0
AW-106	AW-102	5/15/08	5/16/08	218,000	9
AW-102	AP-106	5/17/08	5/18/08	218,100	8
RETURN 2	AP-107	8/14/08	8/14/08	8,673	330
WESF	AP-106	10/1/08	10/1/08	5,000	0
TNS88	AP-106	10/1/08	10/1/08	750	250
SPN87	SY-102	10/1/08	10/1/08	25,000	0
TAL88	AP-106	10/1/08	10/1/08	25,000	0
WATER	AP-106	10/1/08	10/1/08	35,000	0
34L87	AP-106	10/1/08	10/1/08	50,000	0

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
EVAPF	AP-106	10/1/08	10/1/08	120,000	0
WATER	AP-106	10/2/08	10/2/08	22,000	0
WATER	SY-102	10/2/08	10/2/08	5,000	0
WATER	AP-106	10/2/08	10/2/08	5,000	0
EVAPF	AW-102	10/4/08	10/4/08	50,000	0
EVAPF	AW-102	11/3/08	11/3/08	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	1/24/08	12/26/08	137,400	4,760
AZ-102	PIHLW FEED TANK	12/26/08	12/27/08	137,400	4,760
U-202	UA-2	1/3/09	1/10/09	27,411	1,061
AP-104	AP-108	1/6/09	1/10/09	738,400	532
U-203	UA-2	1/10/09	1/16/09	13,895	537
RETURN 2	AP-107	2/12/09	2/12/09	8,670	331
U-110	UA-2	1/16/09	3/10/09	99,290	4,252
UA-2	SY-102	3/11/09	3/12/09	173,900	5,847
U-110	UA-1	3/10/09	5/27/09	143,800	6,160
UA-1	SY-102	5/28/09	5/29/09	186,800	6,157
U-110	UA-2	5/27/09	5/30/09	4,829	207
U-101	UA-2	5/30/09	7/30/09	27,955	668
RETURN 2	AP-107	8/13/09	8/13/09	8,670	331
TNS88	AP-106	10/1/09	10/1/09	750	250
WESF	AP-106	10/1/09	10/1/09	5,000	0
TAL88	AP-106	10/1/09	10/1/09	26,000	0
34L87	AP-106	10/1/09	10/1/09	50,000	0
WATER	AP-106	10/1/09	10/1/09	35,000	0
34L87	AP-106	10/1/09	10/1/09	7,000	0
SPN87	SY-102	10/1/09	10/1/09	25,000	0
EVAPF	AP-106	10/1/09	10/1/09	120,000	0
WATER	AP-106	10/2/09	10/2/09	5,000	0
WATER	AP-106	10/2/09	10/2/09	3,000	0
WATER	SY-102	10/2/09	10/2/09	5,000	0
WATER	AP-106	10/2/09	10/2/09	22,000	0
AP-106	AW-102	10/1/09	10/5/09	749,000	0
EVAPF	AW-102	11/3/09	11/3/09	35,000	0
U-104	UA-2	7/30/09	11/9/09	50,908	1,221
PIHLW FEED TANK	HLW-CONTRACTOR	12/27/08	11/29/09	137,400	4,760
AP-108	LAW-CONTRACTOR-2	4/15/08	11/29/09	1,477,000	1,076
RETURN 1	AP-107	11/30/09	11/30/09	0	0
RETURN 2	AP-107	11/30/09	11/30/09	5,146	196
U-112	UA-2	11/9/09	12/5/09	58,521	2,330
UA-2	SY-102	12/5/09	12/6/09	154,400	4,426
AP-107	AZ-101	12/10/09	12/11/09	214,200	7,208
AN-103	AP-107	12/20/09	12/25/09	1,047,000	11,732
AN-104	AP-107	12/25/09	12/25/09	57,106	182
SY-101	AN-103	12/25/09	12/29/09	1,115,000	1,877
U-112	UA-1	12/5/09	1/17/10	102,000	4,061
U-204	UA-1	1/17/10	1/23/10	13,004	503
U-201	UA-1	1/23/10	1/27/10	13,912	538
UA-1	SY-102	1/28/10	1/28/10	146,500	5,102
U-201	UA-2	1/27/10	1/30/10	13,499	522
U-106	UA-2	1/30/10	3/1/10	134,400	338
U-106	UA-1	3/1/10	4/4/10	149,500	376
AW-102	242-A	4/4/10	4/9/10	868,900	30
242-A	AW-106	4/4/10	4/9/10	556,900	30
242-A	LERF	4/4/10	4/9/10	312,000	0
AW-106	AW-102	4/9/10	4/12/10	556,800	20
AW-102	242-A	4/26/10	4/29/10	556,900	20

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	4/26/10	4/29/10	356,900	20
242-A	LERF	4/26/10	4/29/10	200,000	0
AW-106	AW-102	4/29/10	5/1/10	356,800	13
AW-102	242-A	5/15/10	5/17/10	356,900	13
242-A	AW-106	5/15/10	5/17/10	228,000	13
242-A	LERF	5/15/10	5/17/10	128,900	0
AW-106	AW-102	5/17/10	5/18/10	228,000	9
AW-102	242-A	6/1/10	6/2/10	228,000	9
242-A	AW-106	6/1/10	6/2/10	144,600	9
242-A	LERF	6/1/10	6/2/10	83,442	0
AW-106	AW-102	6/2/10	6/3/10	144,600	6
AW-102	AP-106	6/4/10	6/5/10	144,700	6
S-105	SY-101	5/7/08	7/19/10	1,518,000	2,459
TNS88	AP-106	10/1/10	10/1/10	750	250
TAL88	AP-106	10/1/10	10/1/10	26,000	0
WATER	AP-106	10/1/10	10/1/10	25,000	0
WESF	AP-106	10/1/10	10/1/10	5,000	0
SPN87	SY-102	10/1/10	10/1/10	25,000	0
WATER	AP-106	10/1/10	10/1/10	35,000	0
34L87	AP-106	10/1/10	10/1/10	50,000	0
EVAPP	AP-106	10/1/10	10/1/10	120,000	0
WATER	AP-106	10/2/10	10/2/10	5,000	0
WATER	SY-102	10/2/10	10/2/10	5,000	0
WATER	AP-106	10/2/10	10/2/10	22,000	0
EVAPP	AW-102	10/4/10	10/4/10	50,000	0
EVAPP	AW-102	11/3/10	11/3/10	35,000	0
WATER	AP-106	1/1/11	1/1/11	25,000	0
BY-110	BA-3	1/3/11	2/8/11	147,400	2,633
TX-109	TA-5	1/3/11	2/10/11	144,100	5,925
TY-101	TA-4	1/3/11	2/22/11	146,500	3,494
T-106	TA-6	1/3/11	3/2/11	74,648	2,929
B-112	BA-1	1/3/11	3/9/11	75,213	1,083
BY-110	BA-4	2/8/11	3/16/11	147,400	2,633
TX-109	TA-3	2/10/11	3/19/11	144,100	5,925
T-101	TA-6	3/2/11	3/25/11	61,377	2,346
WATER	AP-106	4/1/11	4/1/11	25,000	0
BX-102	BA-2	1/3/11	4/4/11	52,548	2,443
B-111	BA-1	3/9/11	4/9/11	72,630	2,383
TY-101	TA-2	2/22/11	4/13/11	146,500	3,494
BY-110	BA-5	3/16/11	4/21/11	147,400	2,633
TX-109	TA-1	3/19/11	4/26/11	144,100	5,925
BX-112	BA-2	4/4/11	5/2/11	67,370	2,937
BA-3	AP-108	6/1/11	6/2/11	155,600	2,631
BA-4	AP-108	6/2/11	6/2/11	155,600	2,631
BA-1	AP-108	6/2/11	6/3/11	157,300	3,464
BA-5	AP-108	6/3/11	6/4/11	155,600	2,631
BA-2	AP-108	6/4/11	6/5/11	174,500	5,377
AN-104	AP-102	6/1/11	6/6/11	1,066,000	3,397
AN-103	AP-104	6/1/11	6/6/11	1,114,000	2,128
AN-103	AP-102	6/6/11	6/6/11	998	2
SY-103	AN-103	6/6/11	6/10/11	1,084,000	32,737
B-111	BA-6	4/9/11	6/11/11	145,200	4,764
AN-103	AP-102	6/11/11	6/11/11	44,789	1,321
AN-103	AP-108	6/11/11	6/13/11	292,600	8,627
WATER	AP-106	7/1/11	7/1/11	25,000	0
BY-110	BA-4	6/2/11	7/8/11	147,300	2,631

HNF-2321
Revision 0

Table A.5-1. Complete Transfer List for Case 5.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
BX-112	BA-3	6/2/11	8/2/11	143,600	6,262
B-111	BA-1	6/11/11	8/12/11	145,100	4,761
BY-110	BA-5	7/8/11	8/13/11	147,300	2,631
SX-112	SY-103	4/6/04	8/27/11	397,100	16,406
BX-112	BA-2	8/2/11	9/4/11	78,662	3,430
B-111	BA-2	9/4/11	9/4/11	719	24
BY-110	BA-2	9/4/11	9/14/11	40,093	716

HNF-2321
Revision 0

Table A.5-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 5.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
X	AP-108	AP-106	3/15/99	3/15/99	500	0	Empty 8AP
X	AP-104	AW-102	4/3/99	4/7/99	917,400	0	Empty 4AP
X	AP-102	AP-103	6/15/00	6/20/00	1,070,000	0	Empty 2AP
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Pre-Stage Envelope B
	WASH-WATER	AP-104	10/1/01	10/2/01	200,000	0	Flush Water to 4AP
	AP-104	AP-102	10/15/01	10/17/01	386,500	39	Flush 4AP
	AP-102	AP-106	11/1/01	11/3/01	386,500	37	Flush 2AP
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Pre-Stage Envelope B
	AN-105	AP-102	11/16/01	11/19/01	542,400	7,895	Retrieve/Stage LAW Batch 1, Envelope A
	LERF	AN-105-PUMP	11/16/01	11/19/01	154,100	0	Dilution Water
	AN-105	AP-102	11/16/01	11/19/01	686,500	294	As-received Ghost
	AN-105	AP-104	11/20/01	11/23/01	542,400	7,895	Retrieve/Stage LAW Batch 2, Envelope A
	LERF	AN-105-PUMP	11/20/01	11/23/01	154,100	0	Dilution Water
	AN-105	AP-104	11/20/01	11/23/01	686,500	294	As-received Ghost
	WASH-WATER	AP-108	12/6/01	12/7/01	200,000	0	Flush Water to 8AP
	AP-108	AP-106	12/20/01	12/20/01	200,000	1	Flush 8AP
	AP-102	AP-108	3/11/02	3/15/02	686,500	285	Deliver LAW Batch 1
	AN-104	AP-102	3/16/02	3/19/02	502,200	12,513	Retrieve/Stage LAW Batch 3, Envelope A
	LERF	AN-104-PUMP	3/16/02	3/19/02	200,800	0	Dilution Water
	AN-104	AP-102	3/16/02	3/19/02	684,700	702	As-received Ghost
	AP-104	AP-108	1/5/03	1/9/03	686,500	285	Deliver LAW Batch 2
	AN-104	AP-104	1/9/03	1/12/03	502,200	12,513	Retrieve/Stage LAW Batch 4, Envelope A
	LERF	AN-104-PUMP	1/9/03	1/12/03	200,800	0	Dilution Water
	AN-104	AP-104	1/9/03	1/12/03	684,700	702	As-received Ghost
	RETURN	AP-107	3/31/03	3/31/03	8,671	331	Returns From Contractor
	AP-102	AP-108	9/20/03	9/23/03	684,700	686	Deliver LAW Batch 3
	AW-101	AP-102	9/24/03	9/28/03	537,200	13,013	Retrieve/Stage LAW Batch 5, Envelope A
	LERF	AW-101-PUMP	9/24/03	9/28/03	308,100	0	Dilution Water
	AW-101	AP-102	9/24/03	9/28/03	845,400	13,013	As-received Ghost
	RETURN	AP-107	1/28/04	1/28/04	8,671	331	Returns From Contractor
	AP-104	AP-108	6/13/04	6/16/04	684,700	686	Deliver LAW Batch 4
	AW-101	AP-104	6/17/04	6/21/04	537,200	13,013	Retrieve/Stage LAW Batch 6, Envelope A
	LERF	AW-101-PUMP	6/17/04	6/21/04	308,100	0	Dilution Water
	AW-101	AP-104	6/17/04	6/21/04	845,400	13,013	As-received Ghost
	RETURN	AP-107	8/29/04	8/29/04	8,673	332	Returns From Contractor
	RETURN	AP-107	1/16/05	1/16/05	8,670	332	Returns From Contractor
	AP-102	AP-108	3/7/05	3/11/05	740,300	1,581	Deliver LAW Batch 5
	WASH-WATER	AP-102	3/26/05	3/26/05	136,900	0	Flush Water to 2AP
	AP-102	AP-106	4/9/05	4/9/05	243,100	10,337	Flush 2AP
	AY-101	AP-102	4/10/05	4/11/05	283,600	12	Retrieve/Stage LAW Batch 7, Envelope B
	RETURN	AP-107	5/31/05	5/31/05	8,672	331	Returns From Contractor
	RETURN	AP-107	10/9/05	10/9/05	8,672	330	Returns From Contractor
	AP-104	AP-108	10/11/05	10/15/05	740,300	1,581	Deliver LAW Batch 6
	WASH-WATER	AP-104	10/30/05	10/30/05	136,900	0	Flush Water to 4AP
	AP-104	AP-106	11/13/05	11/13/05	243,100	10,337	Flush 4AP
	AN-107	AP-104	11/14/05	11/16/05	481,700	22	Retrieve/Stage LAW Batch 8/9, Envelope C
	LERF	AN-107-PUMP	11/14/05	11/16/05	72,259	0	Dilution Water
	AN-107	AP-104	11/14/05	11/16/05	554,000	22	As-received Ghost
	RETURN	AP-107	11/29/05	11/29/05	8,673	330	Returns From Contractor
	RETURN	AP-107	1/18/06	1/18/06	8,677	330	Returns From Contractor
	RETURN	AP-107	3/10/06	3/10/06	8,677	330	Returns From Contractor
	RETURN	AP-107	4/29/06	4/29/06	8,677	330	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	6/1/06	6/13/06	4,223,000	5,047	Complete Processing Envelope A
	AP-102	AP-108	6/13/06	6/14/06	277,300	552	Deliver LAW Batch 7
	AN-107	AP-102	6/15/06	6/17/06	481,700	22	Retrieve/Stage LAW Batch 10, Envelope C
	LERF	AN-107-PUMP	6/15/06	6/17/06	72,260	0	Dilution Water

HNF-2321
Revision 0

Table A.5-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 5.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AN-107	AP-102	6/15/06	6/17/06	554,000	22	As-received Ghost
	RETURN	AP-107	6/18/06	6/18/06	8,676	330	Returns From Contractor
	RETURN	AP-107	7/24/06	7/24/06	8,678	328	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	6/15/06	8/13/06	277,300	555	Complete Processing Envelope B
	AP-104	AP-108	8/13/06	8/14/06	171,100	337	Deliver LAW Batch 8
	RETURN	AP-107	9/7/06	9/7/06	8,673	329	Returns From Contractor
	AP-104	AP-108	9/10/06	9/12/06	381,800	753	Deliver LAW Batch 9
	AP-102	AP-104	9/13/06	9/16/06	443,500	21	Retrieve/Stage LAW Batch 11, Envelope C
	LERF	AN-102-PUMP	9/13/06	9/16/06	266,100	0	Dilution Water
	AN-102	AP-104	9/13/06	9/16/06	709,700	21	As-received Ghost
	RETURN	AP-107	11/2/06	11/2/06	8,683	330	Returns From Contractor
	RETURN	AP-107	12/28/06	12/28/06	8,683	330	Returns From Contractor
	AP-102	AP-108	1/21/07	1/24/07	559,200	575	Deliver LAW Batch 10
	AN-103	AP-102	1/25/07	1/28/07	436,600	28,133	Retrieve/Stage LAW Batch 12, Envelope A
	LERF	AN-103-PUMP	1/25/07	1/28/07	264,900	0	Dilution Water
	AN-103	AP-102	1/25/07	1/28/07	738,300	549	As-received Ghost
	RETURN	AP-107	2/23/07	2/23/07	8,670	330	Returns From Contractor
	RETURN	AP-107	4/22/07	4/22/07	8,672	330	Returns From Contractor
	RETURN	AP-107	6/19/07	6/19/07	8,672	330	Returns From Contractor
	AP-104	AP-108	8/4/07	8/8/07	709,600	72	Deliver LAW Batch 11
	AN-103	AP-104	8/9/07	8/12/07	436,600	28,133	Retrieve/Stage LAW Batch 13, Envelope A
	LERF	AN-103-PUMP	8/9/07	8/12/07	264,900	0	Dilution Water
	AN-103	AP-104	8/9/07	8/12/07	738,300	549	As-received Ghost
	RETURN	AP-107	8/25/07	8/25/07	8,676	330	Returns From Contractor
	RETURN	AP-107	12/2/07	12/2/07	8,675	329	Returns From Contractor
	RETURN	AP-107	3/9/08	3/9/08	8,675	329	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	8/15/06	4/11/08	1,822,000	1,786	Complete Processing Envelope C
	AP-102	AP-108	4/11/08	4/15/08	738,300	557	Deliver LAW Batch 12
	RETURN	AP-107	8/14/08	8/14/08	8,673	330	Returns From Contractor
	AP-104	AP-108	1/6/09	1/10/09	738,400	532	Deliver LAW Batch 13
	RETURN	AP-107	2/12/09	2/12/09	8,670	331	Returns From Contractor
	RETURN	AP-107	8/13/09	8/13/09	8,670	331	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	4/15/08	11/29/09	1,477,000	1,076	Complete Processing Extended Order Envelope A
	RETURN	AP-107	11/30/09	11/30/09	5,146	196	Returns From Contractor
	AP-107	AZ-101	12/10/09	12/11/09	214,200	7,208	Transfer Returns to AZ-101 (Phase 2 HLW Tank)

Table A.5-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 5.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AY-102	C-106	7/1/98	7/5/98	920,700	31	Shuice "Waters" for C-106 Retrieval (Lumped (See Below)
	C-106	AY-102	7/15/98	11/10/98	809,000	15,169	C-106 Retrieval (Project W-320)
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Initial Decant 1AZ
	WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0	First Wash 1AZ
	AZ-101	AP-106	10/9/00	10/10/00	143,200	0	First Decant 1AZ
	WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0	Second Wash 1AZ
	AZ-101	AP-106	4/24/01	4/25/01	140,200	0	Second Decant 1AZ
	WASH-WATER	AZ-101	4/26/01	4/26/01	146,000	0	Third Wash 1AZ
	AZ-101	AP-106	6/15/01	6/15/01	142,900	0	Third Decant 1AZ
	WASH-WATER	AZ-101	6/16/01	6/17/01	138,200	0	Transfer Water Add 1AZ
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Initial Decant 2AZ
	WASH-WATER	AZ-102	11/16/01	11/17/01	213,000	0	First Wash 2AZ
	AZ-102	AP-106	1/5/02	1/6/02	317,500	0	First Decant 2AZ
	WASH-WATER	AZ-102	1/8/02	1/9/02	213,000	0	Second Wash 2AZ
	AZ-102	AP-106	2/27/02	2/28/02	205,900	0	Second Decant 2AZ
	WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0	Third Wash 2AZ
	AZ-102	AP-106	4/20/02	4/21/02	209,900	0	Third Decant 2AZ
	WASH-WATER	AZ-102	4/22/02	4/23/02	213,000	0	Fourth Wash 2AZ
	AZ-101	PIHLW_FEED_TANK	5/17/02	5/17/02	134,300	5,079	Deliver Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-102	AP-106	7/15/02	7/16/02	211,600	0	Fourth Decant 2AZ
	WASH-WATER	AZ-102	7/17/02	7/18/02	118,000	0	Transfer Water Add 2AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079	Process Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-101	PIHLW_FEED_TANK	2/21/03	2/21/03	134,300	5,079	Deliver Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
	AY-102	AZ-101	2/23/03	2/27/03	819,600	16,032	Transfer 2AY/6C Slurry to 1AZ for Pretreatment
X	AZ-101	AP-106	10/3/03	10/5/03	326,500	0	Initial Decant 2AY/6C Slurry from 1AZ
X	AZ-101	AW-105	10/5/03	10/6/03	296,200	0	Complete Initial Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	10/6/03	10/8/03	324,000	0	First Wash 2AY/6C Slurry in 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079	Process Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
	AZ-102	PIHLW_FEED_TANK	11/14/03	11/14/03	127,500	5,216	Deliver Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-101	AP-106	11/26/03	11/28/03	320,000	0	First Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	11/29/03	12/1/03	324,000	0	Second Wash 2AY/6C Slurry in 1AZ
	AZ-101	AP-106	6/14/04	6/16/04	322,300	0	Second Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	6/17/04	6/19/04	433,600	0	Transfer Water Add 1AZ for 2AY/6C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/14/03	8/9/04	127,500	5,216	Process Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-102	PIHLW_FEED_TANK	8/9/04	8/10/04	127,500	5,216	Deliver Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	C-104	AY-102	8/1/04	9/8/04	279,100	9,724	C-104 Retrieval (Project W-???)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	8/10/04	5/6/05	127,500	5,216	Process Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	AZ-101	PIHLW_FEED_TANK	5/6/05	5/7/05	127,200	3,269	Deliver Batch 1 of 2AY/6C from 1AZ, Envelope D (Batch 5 Overall)
	AY-102	AZ-102	8/1/05	8/3/05	279,400	9,360	Transfer 4C Slurry to 2AZ for Pretreatment
	PIHLW_FEED_TANK	HLW-CONTRACTOR	5/7/05	11/21/05	127,200	3,269	Process Batch 1 of 2AY/6C, Envelope D (Batch 5 Overall)
	AZ-101	PIHLW_FEED_TANK	11/21/05	11/21/05	127,200	3,269	Deliver Batch 2 of 2AY/6C from 1AZ, Envelope D (Batch 6 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/21/05	6/7/06	127,200	3,269	Process Batch 2 of 2AY/6C, Envelope D (Batch 6 Overall)
	AZ-101	PIHLW_FEED_TANK	6/7/06	6/8/06	127,200	3,269	Deliver Batch 3 of 2AY/6C from 1AZ, Envelope D (Batch 7 Overall)
	AZ-102	AP-106	6/27/06	6/28/06	159,800	0	Initial Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	6/28/06	6/29/06	324,000	0	First Wash 4C Slurry in 2AZ
	AZ-102	AP-106	8/17/06	8/19/06	320,100	0	First Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	8/20/06	8/22/06	324,000	0	Second Wash 4C Slurry in 2AZ
	AZ-102	AP-106	10/10/06	10/12/06	322,700	0	Second Decant 4C Slurry from 2AZ

Table A.5-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 5.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	WASH-WATER	AZ-102	10/13/06	10/14/06	150,200	0	Transfer Water Add 2AZ for 4C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/8/06	12/22/06	127,200	3,269	Process Batch 3 of 2AY/6C, Envelope D (Batch 7 Overall)
	AZ-101	PIHLW_FEED_TANK	12/22/06	12/23/06	127,200	3,269	Deliver Batch 4 of 2AY/6C from 1AZ, Envelope D (Batch 8 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/23/06	7/9/07	127,200	3,269	Process Batch 4 of 2AY/6C, Envelope D (Batch 8 Overall)
	AZ-101	PIHLW_FEED_TANK	7/9/07	7/9/07	127,200	3,269	Deliver Batch 5 of 2AY/6C from 1AZ, Envelope D (Batch 9 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	7/9/07	1/23/08	127,200	3,269	Process Batch 5 of 2AY/6C, Envelope D (Batch 9 Overall)
	AZ-102	PIHLW_FEED_TANK	1/23/08	1/24/08	137,400	4,760	Deliver Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	1/24/08	12/26/08	137,400	4,760	Process Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	AZ-102	PIHLW_FEED_TANK	12/26/08	12/27/08	137,400	4,760	Deliver Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/27/08	11/29/09	137,400	4,760	Process Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
X	AP-107	AZ-101	12/10/09	12/11/09	214,200	7,208	LAW Returns to 1AZ

HNF-2321
Revision 0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	10/1/96	10/1/96	5,000	0
1NS96	AW-105	10/1/96	10/1/96	750	250
ZNL87	SY-102	10/1/96	10/1/96	2,000	0
TAL88	AP-106	10/1/96	10/1/96	4,000	0
IFL96	AW-105	10/1/96	10/1/96	13,000	0
TNS88	AP-106	10/1/96	10/1/96	750	250
WESF	AP-106	10/1/96	10/1/96	5,000	0
SPN87	AP-106	10/1/96	10/1/96	7,000	0
BPTCO	AP-106	10/1/96	10/1/96	11,000	0
EVAPF	AP-106	10/1/96	10/1/96	10,000	0
34L87	AP-106	10/1/96	10/1/96	10,000	0
WNW88	SY-102	10/1/96	10/1/96	19,000	0
WATER	AP-106	10/2/96	10/2/96	12,000	0
WATER	AW-105	10/2/96	10/2/96	5,000	0
WATER	SY-102	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	3,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	AP-106	10/2/96	10/2/96	5,000	0
WATER	SY-102	11/1/96	11/1/96	3,000	0
WNW88	SY-102	11/1/96	11/1/96	14,000	0
EVAPF	AP-106	11/1/96	11/1/96	10,000	0
BPTCO	AP-106	11/1/96	11/1/96	10,000	0
WATER	SY-102	12/1/96	12/1/96	3,000	0
WNW88	SY-102	12/1/96	12/1/96	14,000	0
EVAPF	AP-106	12/1/96	12/1/96	10,000	0
BPTCO	AP-106	12/1/96	12/1/96	11,000	0
WESF	AP-106	1/1/97	1/1/97	5,000	0
TAL88	AP-106	1/1/97	1/1/97	4,000	0
WATER	SY-102	1/1/97	1/1/97	4,000	0
WNW88	SY-102	1/1/97	1/1/97	14,000	0
BPTCO	AP-106	1/1/97	1/1/97	10,000	0
SPN87	AP-106	1/1/97	1/1/97	6,000	0
EVAPF	AP-106	1/1/97	1/1/97	10,000	0
34L87	AP-106	1/1/97	1/1/97	10,000	0
AW-106	AP-101	1/4/97	1/4/97	69,511	3
AN-106	AP-108	1/11/97	1/12/97	177,000	7
WATER	SY-102	2/1/97	2/1/97	4,000	0
WNW88	SY-102	2/1/97	2/1/97	14,000	0
EVAPF	AP-106	2/1/97	2/1/97	10,000	0
BPTCO	AP-106	2/1/97	2/1/97	10,000	0
EVAPF	AW-102	2/20/97	2/20/97	50,000	0
AP-105	AW-102	2/20/97	2/24/97	942,000	39
WATER	AP-106	3/1/97	3/1/97	5,000	0
WATER	SY-102	3/1/97	3/1/97	4,000	0
WNW88	SY-102	3/1/97	3/1/97	16,000	0
BPTCO	AP-106	3/1/97	3/1/97	11,000	0
PXTCO	AP-106	3/1/97	3/1/97	5,000	0
EVAPF	AP-106	3/1/97	3/1/97	10,000	0
34L87	AP-106	3/1/97	3/1/97	10,000	0
AW-102	242-A	2/26/97	3/2/97	1,027,000	42
242-A	AW-106	2/26/97	3/2/97	622,000	42
242-A	LERF	2/26/97	3/2/97	405,000	0
EVAPF	AW-102	3/3/97	3/3/97	35,000	0
WESF	AP-106	4/1/97	4/1/97	5,000	0
WATER	SY-102	4/1/97	4/1/97	6,000	0
EVAPF	AP-106	4/1/97	4/1/97	10,000	0

Table A.6-I. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
TAL88	AP-106	4/1/97	4/1/97	4,000	0
SPN87	AP-106	4/1/97	4/1/97	6,000	0
BPTCO	AP-106	4/1/97	4/1/97	10,000	0
WNW88	SY-102	4/1/97	4/1/97	22,000	0
AW-106	AP-105	4/25/97	4/28/97	617,000	29
AY-101	AP-108	4/25/97	4/29/97	809,000	30
WATER	SY-102	5/1/97	5/1/97	5,000	0
WNW88	SY-102	5/1/97	5/1/97	19,000	0
WATER	AP-106	5/1/97	5/1/97	4,000	0
EVAPF	AP-106	5/1/97	5/1/97	10,000	0
BPTCO	AP-106	5/1/97	5/1/97	11,000	0
34L87	AP-106	5/1/97	5/1/97	10,000	0
EVAPF	AP-106	6/1/97	6/1/97	10,000	0
BPTCO	AP-106	6/1/97	6/1/97	10,000	0
WNW88	SY-102	6/1/97	6/1/97	16,000	0
WATER	SY-102	6/1/97	6/1/97	4,000	0
TAL88	AP-106	7/1/97	7/1/97	4,000	0
SPN87	AP-106	7/1/97	7/1/97	6,000	0
WESF	AP-106	7/1/97	7/1/97	5,000	0
WATER	SY-102	7/1/97	7/1/97	6,000	0
EVAPF	AP-106	7/1/97	7/1/97	10,000	0
34L87	AP-106	7/1/97	7/1/97	10,000	0
BPTCO	AP-106	7/1/97	7/1/97	11,000	0
WNW88	SY-102	7/1/97	7/1/97	24,000	0
WCE88	AN-101	7/1/97	7/1/97	20,000	0
WATER	AN-101	7/1/97	7/1/97	5,000	0
AN-106	AP-108	7/25/97	7/26/97	194,000	7
AP-108	AW-102	7/25/97	7/31/97	1,198,000	42
WATER	SY-102	8/1/97	8/1/97	13,000	0
EVAPF	AP-106	8/1/97	8/1/97	10,000	0
WCE88	AN-101	8/1/97	8/1/97	25,000	0
WATER	AN-101	8/1/97	8/1/97	6,000	0
BPTCO	AP-106	8/1/97	8/1/97	10,000	0
WNW88	SY-102	8/1/97	8/1/97	51,000	0
AW-102	242-A	7/28/97	8/2/97	1,198,000	39
242-A	AW-106	7/28/97	8/2/97	346,700	39
242-A	LERF	7/28/97	8/2/97	851,300	0
EVAPF	AW-102	8/3/97	8/3/97	25,000	0
WATER	AP-107	8/20/97	8/20/97	35,000	0
AW-106	AN-106	8/25/97	8/26/97	347,000	16
SY-102	AP-107	8/25/97	8/27/97	520,000	20
EVAPF	AP-106	9/1/97	9/1/97	10,000	0
WATER	SY-102	9/1/97	9/1/97	15,000	0
WATER	AN-101	9/1/97	9/1/97	10,000	0
BPTCO	AP-106	9/1/97	9/1/97	10,000	0
WNW88	SY-102	9/1/97	9/1/97	61,000	0
WCE88	AN-101	9/1/97	9/1/97	40,000	0
SPN87	SY-102	10/1/97	10/1/97	7,000	0
WESF	AP-106	10/1/97	10/1/97	5,000	0
WATER	SY-102	10/1/97	10/1/97	4,000	0
ZNL87	SY-102	10/1/97	10/1/97	4,000	0
TAL88	AP-106	10/1/97	10/1/97	4,000	0
PXTCO	AP-106	10/1/97	10/1/97	5,000	0
WNW88	SY-102	10/1/97	10/1/97	18,000	0
WATER	AP-106	10/1/97	10/1/97	1,000	0
TNS88	AP-106	10/1/97	10/1/97	750	250

HNF-2321
Revision 0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNE88	AP-106	10/1/97	10/1/97	1,000	0
EVAPF	AP-106	10/1/97	10/1/97	10,000	0
WATER	AN-101	10/1/97	10/1/97	2,000	0
WCE88	AN-101	10/1/97	10/1/97	7,000	0
34L87	AP-106	10/1/97	10/1/97	7,000	0
34L87	AP-106	10/1/97	10/1/97	10,000	0
BPTCO	AP-106	10/1/97	10/1/97	11,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	SY-102	10/2/97	10/2/97	5,000	0
WATER	SY-102	10/2/97	10/2/97	1,000	0
WASH-CAUSTIC.	AN-107	10/2/97	10/2/97	66,000	0
WATER	AP-106	10/2/97	10/2/97	3,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
WATER	AP-106	10/2/97	10/2/97	5,000	0
AY-102	AP-106	10/25/97	10/25/97	35,999	1
WATER	AY-102	10/26/97	10/27/97	176,000	0
WATER	SY-102	11/1/97	11/1/97	4,000	0
WNNW88	SY-102	11/1/97	11/1/97	16,000	0
WATER	AP-106	11/1/97	11/1/97	1,000	0
WNE88	AP-106	11/1/97	11/1/97	1,000	0
EVAPF	AP-106	11/1/97	11/1/97	10,000	0
WCE88	AN-101	11/1/97	11/1/97	20,000	0
WATER	AN-101	11/1/97	11/1/97	5,000	0
EVAPF	AP-106	12/1/97	12/1/97	10,000	0
WNE88	AP-106	12/1/97	12/1/97	1,000	0
WATER	AP-106	12/1/97	12/1/97	1,000	0
WNNW88	SY-102	12/1/97	12/1/97	14,000	0
WCE88	AN-101	12/1/97	12/1/97	20,000	0
WATER	AN-101	12/1/97	12/1/97	5,000	0
WATER	SY-102	12/1/97	12/1/97	3,000	0
WATER	AP-107	12/20/97	12/20/97	35,000	0
SY-102	AP-107	12/26/97	12/27/97	351,700	14
AP-106	AP-104	12/25/97	12/28/97	739,400	25
SPN87	SY-102	1/1/98	1/1/98	6,000	0
WATER	AP-106	1/1/98	1/1/98	4,000	0
WATER	SY-102	1/1/98	1/1/98	4,000	0
WNNW88	SY-102	1/1/98	1/1/98	14,000	0
EVAPF	AP-106	1/1/98	1/1/98	10,000	0
WATER	AP-106	1/1/98	1/1/98	1,000	0
TAL88	AP-106	1/1/98	1/1/98	4,000	0
WNE88	AP-106	1/1/98	1/1/98	1,000	0
BPTCO	AP-106	1/1/98	1/1/98	11,000	0
WATER	AN-101	1/1/98	1/1/98	5,000	0
34L87	AP-106	1/1/98	1/1/98	10,000	0
WCE88	AN-101	1/1/98	1/1/98	20,000	0
WATER	SY-102	2/1/98	2/1/98	4,000	0
WNNW88	SY-102	2/1/98	2/1/98	14,000	0
WATER	AP-106	2/1/98	2/1/98	1,000	0
WNE88	AP-106	2/1/98	2/1/98	1,000	0
EVAPF	AP-106	2/1/98	2/1/98	10,000	0
WATER	AN-101	2/1/98	2/1/98	5,000	0
WCE88	AN-101	2/1/98	2/1/98	20,000	0
WATER	AP-106	3/1/98	3/1/98	1,000	0
WNE88	AP-106	3/1/98	3/1/98	1,000	0
WATER	AP-106	3/1/98	3/1/98	5,000	0
WATER	SY-102	3/1/98	3/1/98	3,000	0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	3/1/98	3/1/98	10,000	0
WATER	AN-101	3/1/98	3/1/98	5,000	0
EVAPF	AP-106	3/1/98	3/1/98	10,000	0
34L87	AP-106	3/1/98	3/1/98	10,000	0
BPTCO	AP-106	3/1/98	3/1/98	11,000	0
WCE88	AN-101	3/1/98	3/1/98	20,000	0
WATER	AP-104	3/20/98	3/20/98	35,000	0
SY-102	AP-104	3/25/98	3/25/98	55,010	2
AP-104	AW-102	3/25/98	3/29/98	827,900	26
AW-102	242-A	3/28/98	4/1/98	888,400	24
242-A	AW-106	3/28/98	4/1/98	151,300	24
242-A	LERF	3/28/98	4/1/98	737,100	0
WNW88	SY-102	4/1/98	4/1/98	10,000	0
WNE88	AP-106	4/1/98	4/1/98	1,000	0
WATER	SY-102	4/1/98	4/1/98	3,000	0
SPN87	SY-102	4/1/98	4/1/98	6,000	0
WATER	AP-106	4/1/98	4/1/98	1,000	0
EVAPF	AP-106	4/1/98	4/1/98	10,000	0
WCE88	AN-101	4/1/98	4/1/98	20,000	0
WATER	AN-101	4/1/98	4/1/98	5,000	0
TAL88	AP-106	4/1/98	4/1/98	4,000	0
WATER	AP-106	5/1/98	5/1/98	1,000	0
WNE88	AP-106	5/1/98	5/1/98	1,000	0
WATER	AP-106	5/1/98	5/1/98	4,000	0
WATER	SY-102	5/1/98	5/1/98	3,000	0
WNW88	SY-102	5/1/98	5/1/98	10,000	0
EVAPF	AP-106	5/1/98	5/1/98	10,000	0
34L87	AP-106	5/1/98	5/1/98	10,000	0
BPTCO	AP-106	5/1/98	5/1/98	11,000	0
WCE88	AN-101	5/1/98	5/1/98	20,000	0
WATER	AN-101	5/1/98	5/1/98	5,000	0
AP-107	AW-102	5/25/98	5/29/98	936,200	33
WNW88	SY-102	6/1/98	6/1/98	10,000	0
WNE88	AP-106	6/1/98	6/1/98	1,000	0
WATER	SY-102	6/1/98	6/1/98	3,000	0
AW-102	242-A	5/28/98	6/1/98	936,100	32
242-A	AW-106	5/28/98	6/1/98	380,500	32
242-A	LERF	5/28/98	6/1/98	555,600	0
WATER	AP-106	6/1/98	6/1/98	1,000	0
WCE88	AN-101	6/1/98	6/1/98	15,000	0
WATER	AN-101	6/1/98	6/1/98	4,000	0
EVAPF	AP-106	6/1/98	6/1/98	10,000	0
EVAPF	AW-102	6/3/98	6/3/98	35,000	0
WATER	AP-104	6/20/98	6/20/98	35,000	0
SY-102	AP-104	6/25/98	6/25/98	45,008	2
AW-106	AP-105	6/25/98	6/26/98	341,000	15
SPN87	SY-102	7/1/98	7/1/98	6,000	0
WATER	AP-106	7/1/98	7/1/98	4,000	0
WATER	SY-102	7/1/98	7/1/98	3,000	0
WNW88	SY-102	7/1/98	7/1/98	10,000	0
WATER	AN-101	7/1/98	7/1/98	4,000	0
TAL88	AP-106	7/1/98	7/1/98	4,000	0
34L87	AP-106	7/1/98	7/1/98	10,000	0
EVAPF	AP-106	7/1/98	7/1/98	10,000	0
WCE88	AN-101	7/1/98	7/1/98	14,000	0
AY-102	C-106	7/1/98	7/5/98	920,700	31

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
BPTCO	AP-106	7/11/98	7/11/98	11,000	0
WCE88	AN-101	8/1/98	8/1/98	14,000	0
EVAPF	AP-106	8/1/98	8/1/98	10,000	0
WNW88	SY-102	8/1/98	8/1/98	10,000	0
WATER	SY-102	8/1/98	8/1/98	3,000	0
WATER	AN-101	8/1/98	8/1/98	4,000	0
WATER	AP-106	9/1/98	9/1/98	5,000	0
WATER	SY-102	9/1/98	9/1/98	2,000	0
WNW88	SY-102	9/1/98	9/1/98	6,000	0
WATER	AN-101	9/1/98	9/1/98	4,000	0
EVAPF	AP-106	9/1/98	9/1/98	10,000	0
WCE88	AN-101	9/1/98	9/1/98	14,000	0
WNE88	AP-106	9/1/98	9/1/98	22,000	0
WATER	AP-107	9/20/98	9/20/98	35,000	0
SY-102	AP-107	9/25/98	9/25/98	40,007	2
AP-101	AW-103	9/25/98	9/28/98	625,000	27
WESF	AP-106	10/1/98	10/1/98	5,000	0
WATER	AP-106	10/1/98	10/1/98	5,000	0
WNW88	SY-102	10/1/98	10/1/98	6,000	0
SPN87	SY-102	10/1/98	10/1/98	7,000	0
WNE88	AP-106	10/1/98	10/1/98	22,000	0
WATER	SY-102	10/1/98	10/1/98	2,000	0
ZNL87	SY-102	10/1/98	10/1/98	4,000	0
34L87	AP-106	10/1/98	10/1/98	10,000	0
WCE88	AN-101	10/1/98	10/1/98	14,000	0
TNS88	AP-106	10/1/98	10/1/98	750	250
TAL88	AP-106	10/1/98	10/1/98	4,000	0
EVAPF	AP-106	10/1/98	10/1/98	10,000	0
PXTCO	AP-106	10/1/98	10/1/98	5,000	0
WATER	AN-101	10/1/98	10/1/98	4,000	0
WATER	AP-106	10/2/98	10/2/98	3,000	0
WATER	AP-106	10/2/98	10/2/98	5,000	0
WATER	SY-102	10/2/98	10/2/98	5,000	0
EVAPF	AW-102	10/4/98	10/4/98	50,000	0
AP-104	AW-102	10/5/98	10/5/98	80,008	2
AW-102	AW-106	10/9/98	10/9/98	150,000	5
AW-104	AP-107	10/9/98	10/11/98	540,000	18
AW-104	AP-104	10/18/98	10/18/98	164,000	6
AP-101	AW-104	10/21/98	10/23/98	460,000	20
AW-106	AP-101	10/29/98	10/30/98	289,000	12
WNW88	SY-102	11/1/98	11/1/98	6,000	0
WATER	SY-102	11/1/98	11/1/98	2,000	0
WNE88	AP-106	11/1/98	11/1/98	22,000	0
WATER	AP-106	11/1/98	11/1/98	5,000	0
WCE88	AN-101	11/1/98	11/1/98	14,000	0
WATER	AN-101	11/1/98	11/1/98	4,000	0
EVAPF	AP-106	11/1/98	11/1/98	10,000	0
AW-106	AW-102	11/5/98	11/5/98	55,857	2
C-106	AY-102	7/15/98	11/10/98	809,000	15,169
WNW88	SY-102	12/1/98	12/1/98	6,000	0
EVAPF	AP-106	12/1/98	12/1/98	10,000	0
WATER	SY-102	12/1/98	12/1/98	2,000	0
WATER	AP-106	12/1/98	12/1/98	7,000	0
WNE88	AP-106	12/1/98	12/1/98	29,000	0
WATER	AN-101	12/1/98	12/1/98	4,000	0
WCE88	AN-101	12/1/98	12/1/98	14,000	0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-104	12/20/98	12/20/98	35,000	0
AW-106	AP-101	12/25/98	12/25/98	0	0
SY-102	AP-104	12/25/98	12/25/98	40,007	2
SPN87	SY-102	1/1/99	1/1/99	6,000	0
WATER	AP-106	1/1/99	1/1/99	4,000	0
WATER	SY-102	1/1/99	1/1/99	2,000	0
WNNW88	SY-102	1/1/99	1/1/99	6,000	0
TAL88	AP-106	1/1/99	1/1/99	4,000	0
WATER	AP-106	1/1/99	1/1/99	10,000	0
EVAPF	AP-106	1/1/99	1/1/99	10,000	0
WATER	AN-101	1/1/99	1/1/99	4,000	0
34L87	AP-106	1/1/99	1/1/99	10,000	0
WCE88	AN-101	1/1/99	1/1/99	14,000	0
WNE88	AP-106	1/1/99	1/1/99	39,000	0
AP-106	AP-104	1/25/99	1/27/99	385,000	14
WATER	SY-102	2/1/99	2/1/99	2,000	0
WATER	AP-106	2/1/99	2/1/99	10,000	0
WNNW88	SY-102	2/1/99	2/1/99	6,000	0
WATER	AN-101	2/1/99	2/1/99	7,000	0
EVAPF	AP-106	2/1/99	2/1/99	10,000	0
WCE88	AN-101	2/1/99	2/1/99	28,000	0
WNE88	AP-106	2/1/99	2/1/99	39,000	0
WATER	AP-106	3/1/99	3/1/99	5,000	0
WATER	SY-102	3/1/99	3/1/99	2,000	0
WNNW88	SY-102	3/1/99	3/1/99	6,000	0
EVAPF	AP-106	3/1/99	3/1/99	10,000	0
WATER	AP-106	3/1/99	3/1/99	9,000	0
34L87	AP-106	3/1/99	3/1/99	10,000	0
WATER	AN-101	3/1/99	3/1/99	7,000	0
WNE88	AP-106	3/1/99	3/1/99	36,000	0
WCE88	AN-101	3/1/99	3/1/99	28,000	0
AN-101	AP-103	3/5/99	3/8/99	593,500	0
AP-107	AW-102	3/5/99	3/8/99	615,000	20
AW-102	242-A	3/8/99	3/11/99	685,900	19
242-A	AW-106	3/8/99	3/11/99	221,100	19
242-A	LERF	3/8/99	3/11/99	464,700	0
AP-108	AP-106	3/15/99	3/15/99	500	0
WATER	AP-107	3/20/99	3/20/99	35,000	0
SY-102	AP-107	3/25/99	3/25/99	30,006	1
WATER	AP-106	4/1/99	4/1/99	4,000	0
WATER	AP-106	4/1/99	4/1/99	7,000	0
WNNW88	SY-102	4/1/99	4/1/99	10,000	0
WATER	SY-102	4/1/99	4/1/99	2,000	0
SPN87	SY-102	4/1/99	4/1/99	6,000	0
WCE88	AN-101	4/1/99	4/1/99	28,000	0
WATER	AN-101	4/1/99	4/1/99	7,000	0
TAL88	AP-106	4/1/99	4/1/99	4,000	0
WNE88	AP-106	4/1/99	4/1/99	31,000	0
EVAPF	AW-102	4/2/99	4/2/99	35,000	0
EVAPF	AP-106	4/3/99	4/3/99	10,000	0
WCE88	AP-106	4/3/99	4/3/99	17,000	0
AP-103	AP-106	4/1/99	4/3/99	586,800	25
AP-106	AW-102	4/3/99	4/8/99	873,100	0
AW-106	AP-101	4/15/99	4/16/99	221,000	8
WATER	SY-102	5/1/99	5/1/99	5,000	0
WCE88	AP-106	5/1/99	5/1/99	17,000	0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	5/1/99	5/1/99	20,000	0
WATER	AP-106	5/1/99	5/1/99	7,000	0
WATER	AP-106	5/1/99	5/1/99	4,000	0
WATER	AP-106	5/1/99	5/1/99	4,000	0
34L87	AP-106	5/1/99	5/1/99	10,000	0
EVAPF	AP-106	5/1/99	5/1/99	10,000	0
WNE88	AP-106	5/1/99	5/1/99	31,000	0
WATER	AN-101	5/1/99	5/1/99	7,000	0
WCE88	AN-101	5/1/99	5/1/99	28,000	0
AP-102	AP-103	5/1/99	5/6/99	1,070,000	0
WATER	SY-102	6/1/99	6/1/99	10,000	0
WCE88	AP-106	6/1/99	6/1/99	17,000	0
WNE88	AP-106	6/1/99	6/1/99	26,000	0
WATER	AP-106	6/1/99	6/1/99	4,000	0
WNW88	SY-102	6/1/99	6/1/99	39,000	0
WATER	AP-106	6/1/99	6/1/99	6,000	0
EVAPF	AP-106	6/1/99	6/1/99	10,000	0
WCE88	AN-101	6/1/99	6/1/99	28,000	0
WATER	AN-101	6/1/99	6/1/99	7,000	0
WATER	AP-107	6/20/99	6/20/99	35,000	0
WATER	AP-106	7/1/99	7/1/99	3,000	0
WATER	AP-106	7/1/99	7/1/99	4,000	0
WATER	AP-106	7/1/99	7/1/99	5,000	0
WATER	SY-102	7/1/99	7/1/99	14,000	0
WCE88	AP-106	7/1/99	7/1/99	11,000	0
SPN87	SY-102	7/1/99	7/1/99	6,000	0
WATER	AN-101	7/1/99	7/1/99	7,000	0
TAL88	AP-106	7/1/99	7/1/99	4,000	0
34L87	AP-106	7/1/99	7/1/99	10,000	0
EVAPF	AP-106	7/1/99	7/1/99	10,000	0
WCE88	AN-101	7/1/99	7/1/99	28,000	0
WNE88	AP-106	7/1/99	7/1/99	20,000	0
WNW88	SY-102	7/1/99	7/1/99	57,000	0
WCE88	AP-106	8/1/99	8/1/99	11,000	0
WATER	SY-102	8/1/99	8/1/99	20,000	0
WATER	AP-106	8/1/99	8/1/99	3,000	0
WATER	AP-106	8/1/99	8/1/99	3,000	0
EVAPF	AP-106	8/1/99	8/1/99	10,000	0
WNE88	AP-106	8/1/99	8/1/99	13,000	0
WNW88	SY-102	8/1/99	8/1/99	82,000	0
WATER	AN-101	8/1/99	8/1/99	7,000	0
WCE88	AN-101	8/1/99	8/1/99	28,000	0
WCE88	AP-106	9/1/99	9/1/99	11,000	0
WCE88	AN-101	9/1/99	9/1/99	23,000	0
WATER	SY-102	9/1/99	9/1/99	19,000	0
WATER	AP-106	9/1/99	9/1/99	3,000	0
WATER	AP-106	9/1/99	9/1/99	2,000	0
WNW88	SY-102	9/1/99	9/1/99	76,000	0
WATER	AN-101	9/1/99	9/1/99	6,000	0
WNE88	AP-106	9/1/99	9/1/99	13,000	0
EVAPF	AP-106	9/1/99	9/1/99	10,000	0
WATER	AP-106	9/25/99	9/25/99	35,000	0
ZNL87	SY-102	10/1/99	10/1/99	4,000	0
WCE88	AP-106	10/1/99	10/1/99	11,000	0
WATER	AP-106	10/1/99	10/1/99	3,000	0
INS96	AW-105	10/1/99	10/1/99	750	250

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
IKL96	AW-105	10/1/99	10/1/99	30,000	0
SPN87	SY-102	10/1/99	10/1/99	7,000	0
EVAPF	AP-106	10/1/99	10/1/99	10,000	0
PXTCO	AP-106	10/1/99	10/1/99	5,000	0
34L87	AP-106	10/1/99	10/1/99	10,000	0
IFL96	AW-105	10/1/99	10/1/99	40,000	0
WATER	SY-102	10/1/99	10/1/99	20,000	0
WCE88	AN-101	10/1/99	10/1/99	23,000	0
WATER	AN-101	10/1/99	10/1/99	6,000	0
WESF	AP-106	10/1/99	10/1/99	5,000	0
WNW88	SY-102	10/1/99	10/1/99	79,000	0
WATER	AP-106	10/1/99	10/1/99	2,000	0
TAL88	AP-106	10/1/99	10/1/99	6,000	0
WNE88	AP-106	10/1/99	10/1/99	10,000	0
TNS88	AP-106	10/1/99	10/1/99	750	250
WATER	SY-102	10/2/99	10/2/99	5,000	0
WATER	AP-106	10/2/99	10/2/99	5,000	0
WATER	AP-106	10/2/99	10/2/99	5,000	0
WATER	AW-105	10/2/99	10/2/99	17,000	0
WATER	AW-105	10/2/99	10/2/99	13,000	0
AW-102	242-A	10/6/99	10/11/99	908,000	37
242-A	AW-106	10/6/99	10/11/99	583,700	37
242-A	LERF	10/6/99	10/11/99	324,400	0
AW-106	AW-102	10/11/99	10/14/99	583,600	26
AW-102	242-A	10/28/99	10/31/99	583,600	26
242-A	AW-106	10/28/99	10/31/99	481,800	26
242-A	LERF	10/28/99	10/31/99	101,800	0
WATER	SY-102	11/1/99	11/1/99	23,000	0
WATER	AP-106	11/1/99	11/1/99	3,000	0
WATER	AP-106	11/1/99	11/1/99	2,000	0
WCE88	AP-106	11/1/99	11/1/99	11,000	0
WATER	AN-101	11/1/99	11/1/99	6,000	0
WNE88	AP-106	11/1/99	11/1/99	10,000	0
EVAPF	AP-106	11/1/99	11/1/99	10,000	0
WNW88	SY-102	11/1/99	11/1/99	93,000	0
WCE88	AN-101	11/1/99	11/1/99	23,000	0
EVAPF	AW-102	11/17/99	11/17/99	35,000	0
AP-104	AP-106	11/15/99	11/17/99	500,000	17
AP-106	AW-102	11/17/99	11/21/99	882,400	0
WCE88	AP-106	12/1/99	12/1/99	6,000	0
WATER	AP-106	12/1/99	12/1/99	1,000	0
WATER	SY-102	12/1/99	12/1/99	26,000	0
WCE88	AN-101	12/1/99	12/1/99	17,000	0
WATER	AN-101	12/1/99	12/1/99	4,000	0
WATER	AP-106	12/1/99	12/1/99	1,000	0
WNE88	AP-106	12/1/99	12/1/99	3,000	0
EVAPF	AP-106	12/1/99	12/1/99	10,000	0
WNW88	SY-102	12/1/99	12/1/99	105,000	0
EVAPF	AW-102	12/3/99	12/3/99	35,000	0
AW-106	AN-106	12/1/99	12/3/99	481,700	22
WCE88	AP-106	1/1/00	1/1/00	6,000	0
WATER	AP-106	1/1/00	1/1/00	1,000	0
WATER	AP-106	1/1/00	1/1/00	4,000	0
SPN87	SY-102	1/1/00	1/1/00	6,000	0
WATER	SY-102	1/1/00	1/1/00	24,000	0
WATER	AN-101	1/1/00	1/1/00	4,000	0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
34L87	AP-106	1/1/00	1/1/00	10,000	0
WNNW88	SY-102	1/1/00	1/1/00	98,000	0
WCE88	AN-101	1/1/00	1/1/00	17,000	0
WATER	AP-106	1/1/00	1/1/00	1,000	0
WNE88	AP-106	1/1/00	1/1/00	3,000	0
EVAPP	AP-106	1/1/00	1/1/00	10,000	0
TAL88	AP-106	1/1/00	1/1/00	6,000	0
SY-102	AP-107	1/15/00	1/18/00	856,200	35
WATER	AP-106	1/20/00	1/20/00	35,000	0
WCE88	AP-106	2/1/00	2/1/00	5,000	0
WATER	SY-102	2/1/00	2/1/00	22,000	0
WATER	AP-106	2/1/00	2/1/00	1,000	0
WNE88	AP-106	2/1/00	2/1/00	3,000	0
WATER	AP-106	2/1/00	2/1/00	1,000	0
EVAPP	AP-106	2/1/00	2/1/00	10,000	0
WCE88	AN-101	2/1/00	2/1/00	17,000	0
WATER	AN-101	2/1/00	2/1/00	4,000	0
WNNW88	SY-102	2/1/00	2/1/00	90,000	0
AP-104	AP-107	2/15/00	2/15/00	124,000	4
WCE88	AP-106	3/1/00	3/1/00	3,000	0
WATER	SY-102	3/1/00	3/1/00	21,000	0
WATER	AP-106	3/1/00	3/1/00	1,000	0
WATER	AP-106	3/1/00	3/1/00	1,000	0
WNE88	AP-106	3/1/00	3/1/00	3,000	0
WNNW88	SY-102	3/1/00	3/1/00	82,000	0
WATER	AP-106	3/1/00	3/1/00	5,000	0
WATER	AN-101	3/1/00	3/1/00	4,000	0
EVAPP	AP-106	3/1/00	3/1/00	10,000	0
34L87	AP-106	3/1/00	3/1/00	10,000	0
WCE88	AN-101	3/1/00	3/1/00	17,000	0
WCE88	AP-106	4/1/00	4/1/00	3,000	0
WATER	SY-102	4/1/00	4/1/00	20,000	0
WATER	AP-106	4/1/00	4/1/00	1,000	0
SPN87	SY-102	4/1/00	4/1/00	6,000	0
TAL88	AP-106	4/1/00	4/1/00	6,000	0
EVAPP	AP-106	4/1/00	4/1/00	10,000	0
WNNW88	SY-102	4/1/00	4/1/00	79,000	0
WATER	AN-101	4/1/00	4/1/00	20,000	0
WCE88	AN-101	4/1/00	4/1/00	81,000	0
WCE88	AP-106	5/1/00	5/1/00	3,000	0
WATER	SY-102	5/1/00	5/1/00	22,000	0
WATER	AP-106	5/1/00	5/1/00	4,000	0
WATER	AP-106	5/1/00	5/1/00	1,000	0
EVAPP	AP-106	5/1/00	5/1/00	10,000	0
34L87	AP-106	5/1/00	5/1/00	10,000	0
WNNW88	SY-102	5/1/00	5/1/00	88,000	0
WATER	AN-101	5/1/00	5/1/00	20,000	0
WCE88	AN-101	5/1/00	5/1/00	81,000	0
AW-102	242-A	5/21/00	5/25/00	952,700	35
242-A	AW-106	5/21/00	5/25/00	610,700	35
242-A	LERF	5/21/00	5/25/00	342,000	0
AW-106	AW-102	5/26/00	5/29/00	610,500	24
WCE88	AP-106	6/1/00	6/1/00	3,000	0
WATER	SY-102	6/1/00	6/1/00	23,000	0
WCE88	AN-101	6/1/00	6/1/00	14,000	0
WATER	AN-101	6/1/00	6/1/00	4,000	0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-106	6/1/00	6/1/00	1,000	0
EVAPF	AP-106	6/1/00	6/1/00	10,000	0
WNNW88	SY-102	6/1/00	6/1/00	91,000	0
AW-102	242-A	6/12/00	6/15/00	610,500	24
242-A	AW-106	6/12/00	6/15/00	391,400	24
242-A	LERF	6/12/00	6/15/00	219,100	0
AW-106	AW-102	6/15/00	6/17/00	391,300	17
SPN87	SY-102	7/1/00	7/1/00	6,000	0
WCE88	AP-106	7/1/00	7/1/00	3,000	0
WATER	SY-102	7/1/00	7/1/00	25,000	0
WATER	AP-106	7/1/00	7/1/00	4,000	0
TAL88	AP-106	7/1/00	7/1/00	5,000	0
WATER	AP-106	7/1/00	7/1/00	1,000	0
WCE88	AN-101	7/1/00	7/1/00	14,000	0
WATER	AN-101	7/1/00	7/1/00	4,000	0
EVAPF	AP-106	7/1/00	7/1/00	10,000	0
34L87	AP-106	7/1/00	7/1/00	10,000	0
WNNW88	SY-102	7/1/00	7/1/00	98,000	0
AW-102	242-A	7/1/00	7/3/00	391,400	17
242-A	AW-106	7/1/00	7/3/00	265,200	17
242-A	LERF	7/1/00	7/3/00	126,200	0
AP-107	AW-102	7/4/00	7/8/00	917,700	0
WATER	SY-102	8/1/00	8/1/00	5,000	0
WCE88	AN-101	8/1/00	8/1/00	14,000	0
WCW88	SY-102	8/1/00	8/1/00	19,000	0
WATER	AN-101	8/1/00	8/1/00	4,000	0
EVAPF	AP-106	8/1/00	8/1/00	10,000	0
WCE88	AP-106	8/1/00	8/1/00	2,000	0
WATER	SY-102	8/1/00	8/1/00	24,000	0
WNNW88	SY-102	8/1/00	8/1/00	93,000	0
AW-106	AN-106	8/1/00	8/2/00	265,100	12
EVAPF	AW-102	8/3/00	8/3/00	35,000	0
AP-101	AP-106	8/15/00	8/17/00	510,000	20
AZ-101	AY-101	8/17/00	8/20/00	685,000	0
AZ-101	AP-107	8/20/00	8/20/00	0	0
WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0
AW-102	242-A	8/18/00	8/23/00	952,900	37
242-A	AW-106	8/18/00	8/23/00	610,900	37
242-A	LERF	8/18/00	8/23/00	342,000	0
AW-106	AW-102	8/23/00	8/27/00	610,800	26
WATER	SY-102	9/1/00	9/1/00	5,000	0
WCW88	SY-102	9/1/00	9/1/00	19,000	0
WCE88	AP-106	9/1/00	9/1/00	1,000	0
WATER	SY-102	9/1/00	9/1/00	22,000	0
WATER	AN-101	9/1/00	9/1/00	4,000	0
EVAPF	AP-106	9/1/00	9/1/00	10,000	0
WCE88	AN-101	9/1/00	9/1/00	14,000	0
WNNW88	SY-102	9/1/00	9/1/00	88,000	0
AW-102	242-A	9/10/00	9/13/00	640,700	26
242-A	AW-106	9/10/00	9/13/00	422,300	26
242-A	LERF	9/10/00	9/13/00	188,400	0
AP-106	AW-102	9/13/00	9/17/00	828,300	0
SY-102	AP-107	9/15/00	9/19/00	900,000	37
ZNL87	SY-102	10/1/00	10/1/00	4,000	0
WCW88	SY-102	10/1/00	10/1/00	13,000	0
WATER	SY-102	10/1/00	10/1/00	3,000	0

HNF-2321
Revision 0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WNW88	SY-102	10/1/00	10/1/00	26,000	0
SPN87	SY-102	10/1/00	10/1/00	25,000	0
INS96	AW-105	10/1/00	10/1/00	13,502	4,498
PXTCO	AP-106	10/1/00	10/1/00	5,000	0
TNS88	AP-106	10/1/00	10/1/00	750	250
WESP	AP-106	10/1/00	10/1/00	5,000	0
TAL88	AP-106	10/1/00	10/1/00	23,000	0
WATER	SY-102	10/1/00	10/1/00	103,000	0
WATER	AN-101	10/1/00	10/1/00	2,000	0
WCE88	AN-101	10/1/00	10/1/00	9,000	0
34L87	AP-106	10/1/00	10/2/00	50,000	0
34L87	AP-106	10/2/00	10/2/00	7,000	0
WATER	SY-102	10/2/00	10/2/00	1,000	0
WATER	SY-102	10/2/00	10/2/00	5,000	0
EVAPP	AP-106	10/1/00	10/2/00	120,000	0
1KL96	AW-105	10/1/00	10/2/00	302,000	0
WATER	AW-105	10/2/00	10/2/00	132,000	0
WATER	AW-105	10/2/00	10/3/00	7,000	0
WATER	AP-106	10/3/00	10/3/00	5,000	0
WATER	AP-106	10/3/00	10/3/00	3,000	0
WATER	AP-106	10/3/00	10/3/00	22,000	0
EVAPP	AW-102	10/4/00	10/4/00	50,000	0
AZ-101	AP-106	10/9/00	10/10/00	143,200	0
WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0
AW-106	AP-101	10/15/00	10/17/00	422,200	20
WCW88	SY-102	11/1/00	11/1/00	13,000	0
WCE88	AN-101	11/1/00	11/1/00	9,000	0
WATER	SY-102	11/1/00	11/1/00	28,000	0
WATER	SY-102	11/1/00	11/1/00	3,000	0
WATER	AN-101	11/1/00	11/1/00	2,000	0
WNW88	SY-102	11/1/00	11/1/00	111,000	0
EVAPP	AW-102	11/3/00	11/3/00	35,000	0
AZ-101	AP-106	11/30/00	12/1/00	140,200	0
WCW88	SY-102	12/1/00	12/1/00	8,000	0
WATER	AN-101	12/1/00	12/1/00	2,000	0
WCE88	AN-101	12/1/00	12/1/00	9,000	0
WATER	SY-102	12/1/00	12/1/00	2,000	0
WATER	SY-102	12/1/00	12/1/00	25,000	0
WNW88	SY-102	12/1/00	12/1/00	99,000	0
WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0
WCW88	SY-102	1/1/01	1/1/01	8,000	0
WATER	SY-102	1/1/01	1/1/01	2,000	0
WATER	AN-101	1/1/01	1/1/01	2,000	0
WCE88	AN-101	1/1/01	1/1/01	9,000	0
WATER	SY-102	1/1/01	1/1/01	26,000	0
WNW88	SY-102	1/1/01	1/1/01	105,000	0
AZ-101	AP-106	1/20/01	1/21/01	142,900	0
WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0
WATER	SY-102	2/1/01	2/1/01	1,000	0
WCW88	SY-102	2/1/01	2/1/01	3,000	0
WCE88	AN-101	2/1/01	2/1/01	9,000	0
WATER	SY-102	2/1/01	2/1/01	23,000	0
WATER	AN-101	2/1/01	2/1/01	2,000	0
WNW88	SY-102	2/1/01	2/1/01	91,000	0
WCW88	SY-102	3/1/01	3/1/01	2,000	0
WATER	SY-102	3/1/01	3/1/01	1,000	0

HNF-2321
Revision 0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCE88	AN-101	3/1/01	3/1/01	9,000	0
WATER	SY-102	3/1/01	3/1/01	28,000	0
WATER	AN-101	3/1/01	3/1/01	2,000	0
WNW88	SY-102	3/1/01	3/1/01	112,000	0
SY-102	AP-104	3/15/01	3/19/01	919,400	37
AW-102	242-A	3/18/01	3/22/01	913,600	35
242-A	AW-106	3/18/01	3/22/01	585,300	35
242-A	LERF	3/18/01	3/22/01	328,200	0
AW-106	AW-102	3/23/01	3/25/01	585,200	24
WCE88	AN-101	4/1/01	4/1/01	9,000	0
WATER	AN-101	4/1/01	4/1/01	2,000	0
AW-102	242-A	4/9/01	4/11/01	585,200	24
242-A	AW-106	4/9/01	4/11/01	375,200	24
242-A	LERF	4/9/01	4/11/01	210,000	0
AW-106	AW-102	4/11/01	4/13/01	375,100	17
WATER	SY-102	4/15/01	4/15/01	27,000	0
WNW88	SY-102	4/15/01	4/15/01	108,000	0
AW-102	242-A	4/27/01	4/29/01	375,200	17
242-A	AW-106	4/27/01	4/29/01	299,900	17
242-A	LERF	4/27/01	4/29/01	75,310	0
WATER	SY-102	5/1/01	5/1/01	29,000	0
WCE88	AP-106	5/1/01	5/1/01	9,000	0
WATER	AW-102	5/1/01	5/1/01	35,000	0
WATER	AP-106	5/1/01	5/1/01	2,000	0
WNW88	SY-102	5/1/01	5/1/01	118,000	0
AW-106	AP-101	5/1/01	5/2/01	299,900	14
EVAPF	AW-102	5/3/01	5/3/01	35,000	0
AP-107	AW-102	5/2/01	5/6/01	883,200	0
AW-102	242-A	5/21/01	5/26/01	953,300	38
242-A	AW-106	5/21/01	5/26/01	611,300	38
242-A	LERF	5/21/01	5/26/01	342,000	0
AW-106	AW-102	5/26/01	5/29/01	611,200	27
WATER	SY-102	6/1/01	6/1/01	25,000	0
WATER	AP-106	6/1/01	6/1/01	2,000	0
WCE88	AP-106	6/1/01	6/1/01	9,000	0
WNW88	SY-102	6/1/01	6/1/01	100,000	0
AW-102	242-A	6/12/01	6/16/01	611,200	27
242-A	AW-106	6/12/01	6/16/01	487,100	27
242-A	LERF	6/12/01	6/16/01	124,000	0
WCE88	AP-106	7/1/01	7/1/01	3,000	0
WATER	SY-102	7/1/01	7/1/01	31,000	0
WATER	AP-106	7/1/01	7/1/01	1,000	0
WNW88	SY-102	7/1/01	7/1/01	123,000	0
AP-104	AW-102	7/2/01	7/6/01	918,300	0
AW-106	AP-101	7/15/01	7/16/01	350,000	16
WATER	AP-106	8/1/01	8/1/01	1,000	0
WCE88	AP-106	8/1/01	8/1/01	3,000	0
WATER	SY-102	8/1/01	8/1/01	25,000	0
WNW88	SY-102	8/1/01	8/1/01	101,000	0
WASH-WATER	AP-104	8/1/01	8/2/01	200,000	0
AP-104	AP-102	8/15/01	8/16/01	201,100	33
WATER	SY-102	9/1/01	9/1/01	19,000	0
WATER	AP-106	9/1/01	9/1/01	1,000	0
WCE88	AP-106	9/1/01	9/1/01	3,000	0
WNW88	SY-102	9/1/01	9/1/01	74,000	0
AP-102	AP-106	9/1/01	9/2/01	201,100	29

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AN-105	AP-102	9/15/01	9/18/01	542,400	7,895
LERF	AN-105-PUMP	9/15/01	9/18/01	154,100	0
AN-105	AP-102	9/15/01	9/18/01	686,500	294
AP-108	AP-106	9/20/01	9/20/01	0	0
AN-105	AP-104	9/19/01	9/22/01	542,400	7,895
LERF	AN-105-PUMP	9/19/01	9/22/01	154,100	0
AN-105	AP-104	9/19/01	9/22/01	686,500	294
AW-102	242-A	9/20/01	9/25/01	918,600	37
242-A	AW-106	9/20/01	9/25/01	588,900	37
242-A	LERF	9/20/01	9/25/01	329,700	0
AW-106	AW-102	9/25/01	9/29/01	725,900	32
ZNL87	SY-102	10/1/01	10/1/01	4,000	0
WESF	AP-106	10/1/01	10/1/01	5,000	0
WCW88	SY-102	10/1/01	10/1/01	23,000	0
SPN87	SY-102	10/1/01	10/1/01	25,000	0
WATER	AP-106	10/1/01	10/1/01	35,000	0
WNV88	SY-102	10/1/01	10/1/01	62,000	0
WATER	SY-102	10/1/01	10/1/01	6,000	0
WATER	SY-102	10/1/01	10/1/01	16,000	0
WATER	AP-106	10/1/01	10/1/01	1,000	0
WCE88	AP-106	10/1/01	10/1/01	3,000	0
TNS88	AP-106	10/1/01	10/1/01	750	250
TAL88	AP-106	10/1/01	10/1/01	23,000	0
34L87	AP-106	10/1/01	10/1/01	50,000	0
EVAPF	AP-106	10/1/01	10/1/01	83,495	0
WATER	SY-102	10/2/01	10/2/01	5,000	0
WASH-WATER	AP-108	10/5/01	10/6/01	200,000	0
AW-102	242-A	10/13/01	10/17/01	725,800	32
242-A	AW-106	10/13/01	10/17/01	591,000	32
242-A	LERF	10/13/01	10/17/01	134,800	0
SY-102	AP-107	10/15/01	10/19/01	800,000	33
AP-106	AW-102	10/17/01	10/21/01	918,500	0
WATER	AP-106	10/22/01	10/22/01	5,000	0
WATER	AP-106	10/22/01	10/22/01	22,000	0
EVAPF	AP-106	10/22/01	10/23/01	36,505	0
WATER	SY-102	11/1/01	11/1/01	12,000	0
WCW88	SY-102	11/1/01	11/1/01	23,000	0
WATER	AP-106	11/1/01	11/1/01	1,000	0
WNV88	SY-102	11/1/01	11/1/01	47,000	0
WATER	SY-102	11/1/01	11/1/01	6,000	0
WCE88	AP-106	11/1/01	11/1/01	3,000	0
EVAPF	AW-102	11/3/01	11/3/01	35,000	0
AP-108	AP-106	11/5/01	11/5/01	200,000	1
AP-107	AN-105	11/5/01	11/5/01	979,200	107
AZ-102	AY-101	11/14/01	11/15/01	204,000	0
AZ-102	AP-107	11/15/01	11/16/01	181,800	0
AW-106	AN-101	11/15/01	11/17/01	400,000	19
WASH-WATER	AZ-102	11/16/01	11/17/01	213,000	0
WATER	AP-106	12/1/01	12/1/01	1,000	0
WCE88	AP-106	12/1/01	12/1/01	3,000	0
WATER	SY-102	12/1/01	12/1/01	12,000	0
WCW88	SY-102	12/1/01	12/1/01	46,000	0
WNV88	SY-102	12/1/01	12/1/01	37,000	0
WATER	SY-102	12/1/01	12/1/01	9,000	0
AW-106	AW-104	12/15/01	12/16/01	191,000	9
WCE88	AP-106	1/1/02	1/1/02	3,000	0

HNF-2321
Revision 0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	SY-102	1/1/02	1/1/02	8,000	0
WATER	AP-106	1/1/02	1/1/02	1,000	0
WNW88	SY-102	1/1/02	1/1/02	32,000	0
WATER	SY-102	1/1/02	1/1/02	10,000	0
WCW88	SY-102	1/1/02	1/1/02	39,000	0
AZ-102	AP-106	1/6/02	1/6/02	127,700	0
WASH-WATER	AZ-102	1/7/02	1/8/02	213,000	0
AP-102	AP-108	1/8/02	1/12/02	686,500	286
AN-104	AP-102	1/12/02	1/15/02	502,200	12,513
LERF	AN-104-PUMP	1/12/02	1/15/02	200,800	0
AN-104	AP-102	1/12/02	1/15/02	684,700	702
WNW88	SY-102	2/1/02	2/1/02	16,000	0
WATER	SY-102	2/1/02	2/1/02	4,000	0
WCE88	AP-106	2/1/02	2/1/02	2,000	0
WATER	SY-102	2/1/02	2/1/02	16,000	0
WATER	AP-106	2/1/02	2/1/02	1,000	0
WCW88	SY-102	2/1/02	2/1/02	62,000	0
AZ-102	AP-106	2/27/02	2/28/02	210,300	0
WNW88	SY-102	3/1/02	3/1/02	14,000	0
WATER	SY-102	3/1/02	3/1/02	4,000	0
WCE88	AP-106	3/1/02	3/1/02	2,000	0
WATER	SY-102	3/1/02	3/1/02	16,000	0
WATER	AP-106	3/1/02	3/1/02	1,000	0
WCW88	SY-102	3/1/02	3/1/02	62,000	0
WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0
WNW88	SY-102	4/1/02	4/1/02	11,000	0
WATER	SY-102	4/1/02	4/1/02	18,000	0
WATER	SY-102	4/1/02	4/1/02	3,000	0
WATER	AP-106	4/1/02	4/1/02	1,000	0
WCE88	AP-106	4/1/02	4/1/02	1,000	0
WCW88	SY-102	4/1/02	4/1/02	71,000	0
AW-102	242-A	4/4/02	4/9/02	953,800	34
242-A	AW-106	4/4/02	4/9/02	611,800	34
242-A	LERF	4/4/02	4/9/02	342,000	0
AW-106	AW-102	4/9/02	4/13/02	611,700	23
AW-102	242-A	4/27/02	4/30/02	611,600	22
242-A	AW-106	4/27/02	4/30/02	390,500	22
242-A	LERF	4/27/02	4/30/02	221,100	0
WNW88	SY-102	5/1/02	5/1/02	6,000	0
WATER	SY-102	5/1/02	5/1/02	1,000	0
WATER	SY-102	5/1/02	5/1/02	17,000	0
WCW88	SY-102	5/1/02	5/1/02	67,000	0
AW-106	AW-102	4/30/02	5/2/02	390,400	15
AZ-101	PIHLW FEED TANK	5/17/02	5/17/02	134,300	5,079
AW-102	242-A	5/16/02	5/18/02	390,500	15
242-A	AW-106	5/16/02	5/18/02	250,000	15
242-A	LERF	5/16/02	5/18/02	140,600	0
AW-106	AW-102	5/18/02	5/19/02	249,900	10
WNW88	SY-102	6/1/02	6/1/02	2,000	0
WATER	SY-102	6/1/02	6/1/02	1,000	0
WATER	SY-102	6/1/02	6/1/02	16,000	0
WCW88	SY-102	6/1/02	6/1/02	65,000	0
AW-102	242-A	6/2/02	6/3/02	250,000	10
242-A	AW-106	6/2/02	6/3/02	160,000	10
242-A	LERF	6/2/02	6/3/02	90,000	0
AW-106	AW-102	6/3/02	6/4/02	160,000	7

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AW-102	AW-106	6/5/02	6/6/02	160,100	7
AP-106	AW-102	6/7/02	6/11/02	800,400	0
AZ-102	AP-106	6/11/02	6/12/02	211,800	0
WASH-WATER	AZ-102	6/13/02	6/14/02	213,000	0
SY-102	AP-106	6/15/02	6/16/02	300,000	13
WATER	SY-102	7/1/02	7/1/02	15,000	0
WCW88	SY-102	7/1/02	7/1/02	58,000	0
WATER	SY-102	8/1/02	8/1/02	11,000	0
WCW88	SY-102	8/1/02	8/1/02	45,000	0
AZ-102	AP-106	8/2/02	8/3/02	212,500	0
WASH-WATER	AZ-102	8/4/02	8/5/02	110,000	0
WATER	SY-102	9/1/02	9/1/02	11,000	0
WCW88	SY-102	9/1/02	9/1/02	42,000	0
ZNL87	SY-102	10/1/02	10/1/02	3,000	0
WATER	SY-102	10/1/02	10/1/02	9,000	0
SPN87	SY-102	10/1/02	10/1/02	25,000	0
WESF	AP-106	10/1/02	10/1/02	5,000	0
TNS88	AP-106	10/1/02	10/1/02	750	250
WCW88	SY-102	10/1/02	10/1/02	35,000	0
TAL88	AP-106	10/1/02	10/1/02	24,000	0
WATER	AP-106	10/1/02	10/1/02	35,000	0
34L87	AP-106	10/1/02	10/1/02	50,000	0
EVAPF	AP-106	10/1/02	10/1/02	120,000	0
WATER	SY-102	10/2/02	10/2/02	1,000	0
WATER	SY-102	10/2/02	10/2/02	5,000	0
WATER	AP-106	10/2/02	10/2/02	5,000	0
WATER	AP-106	10/2/02	10/2/02	22,000	0
EVAPF	AW-102	10/4/02	10/4/02	50,000	0
AW-102	242-A	10/3/02	10/7/02	800,400	28
242-A	AW-106	10/3/02	10/7/02	512,400	28
242-A	LERF	10/3/02	10/7/02	288,000	0
AW-106	AW-102	10/8/02	10/11/02	672,300	25
AW-102	242-A	10/25/02	10/29/02	722,200	27
242-A	AW-106	10/25/02	10/29/02	464,200	27
242-A	LERF	10/25/02	10/29/02	258,000	0
AW-106	AW-102	10/29/02	10/31/02	464,100	18
WATER	SY-102	11/1/02	11/1/02	9,000	0
WCW88	SY-102	11/1/02	11/1/02	35,000	0
EVAPF	AW-102	11/3/02	11/3/02	35,000	0
AW-102	242-A	11/14/02	11/17/02	499,200	20
242-A	AW-106	11/14/02	11/17/02	319,200	20
242-A	LERF	11/14/02	11/17/02	180,000	0
AW-106	AW-102	11/17/02	11/18/02	319,200	13
WATER	SY-102	12/1/02	12/1/02	6,900	0
WCW88	SY-102	12/1/02	12/1/02	23,000	0
AW-102	242-A	12/3/02	12/4/02	319,200	13
242-A	AW-106	12/3/02	12/4/02	208,400	13
242-A	LERF	12/3/02	12/4/02	110,800	0
AP-106	AW-102	12/5/02	12/9/02	919,100	0
WATER	SY-102	1/1/03	1/1/03	5,000	0
WCW88	SY-102	1/1/03	1/1/03	18,000	0
AP-104	AP-108	1/4/03	1/8/03	686,500	287
AN-104	AP-104	1/9/03	1/12/03	502,200	12,513
LERF	AN-104-PUMP	1/9/03	1/12/03	200,800	0
AN-104	AP-104	1/9/03	1/12/03	684,700	702
WATER	SY-102	2/1/03	2/1/03	4,000	0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WCW88	SY-102	2/1/03	2/1/03	16,000	0
AW-106	AN-104	2/15/03	2/16/03	208,400	10
PIHLW FEED TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079
AZ-101	PIHLW FEED TANK	2/21/03	2/21/03	134,300	5,079
WATER	SY-102	3/1/03	3/1/03	4,000	0
WCW88	SY-102	3/1/03	3/1/03	15,000	0
AY-102	AZ-101	2/26/03	3/2/03	819,600	16,032
RETURN 2	AP-107	3/28/03	3/28/03	8,669	331
WATER	SY-102	4/1/03	4/1/03	2,000	0
WCW88	SY-102	4/1/03	4/1/03	6,000	0
AW-102	242-A	4/5/03	4/10/03	919,200	34
242-A	AW-106	4/5/03	4/10/03	589,200	34
242-A	LERF	4/5/03	4/10/03	330,000	0
AW-106	AW-102	4/10/03	4/13/03	589,100	23
AW-102	242-A	4/28/03	5/1/03	589,000	23
242-A	AW-106	4/28/03	5/1/03	378,400	23
242-A	LERF	4/28/03	5/1/03	210,600	0
WATER	SY-102	5/1/03	5/1/03	1,000	0
WCW88	SY-102	5/1/03	5/1/03	3,000	0
AW-106	AW-102	5/1/03	5/2/03	378,300	16
AW-102	242-A	5/17/03	5/18/03	378,400	15
242-A	AW-106	5/17/03	5/18/03	242,600	15
242-A	LERF	5/17/03	5/18/03	135,800	0
AW-106	AW-102	5/18/03	5/20/03	242,600	11
WATER	SY-102	6/1/03	6/1/03	1,000	0
WCW88	SY-102	6/1/03	6/1/03	2,361	0
AW-102	242-A	6/3/03	6/4/03	242,600	11
242-A	AW-106	6/3/03	6/4/03	201,200	11
242-A	LERF	6/3/03	6/4/03	41,478	0
AW-106	AN-104	6/4/03	6/5/03	201,100	9
AN-105	AW-102	6/5/03	6/9/03	919,300	0
SY-102	AP-106	6/15/03	6/19/03	984,800	42
WCW88	SY-102	6/20/03	6/20/03	639	0
AW-102	242-A	6/24/03	6/29/03	919,400	38
242-A	AW-106	6/24/03	6/29/03	590,200	38
242-A	LERF	6/24/03	6/29/03	329,200	0
WATER	SY-102	7/1/03	7/1/03	1,000	0
WCW88	SY-102	7/1/03	7/1/03	3,000	0
AW-106	AN-104	6/29/03	7/2/03	590,100	27
AP-106	AW-102	6/29/03	7/4/03	919,400	0
AN-104	AN-105	8/15/03	8/20/03	993,200	45
AP-102	AP-108	9/17/03	9/21/03	684,700	686
AW-101	AP-102	9/22/03	9/26/03	537,200	13,013
LERF	AW-101-PUMP	9/22/03	9/26/03	308,100	0
AW-101	AP-102	9/22/03	9/26/03	845,400	13,013
WESF	AP-106	10/1/03	10/1/03	5,000	0
ZNL87	SY-102	10/1/03	10/1/03	3,000	0
TNS88	AP-106	10/1/03	10/1/03	750	250
SPN87	SY-102	10/1/03	10/1/03	25,000	0
WATER	AP-106	10/1/03	10/1/03	35,000	0
34L87	AP-106	10/1/03	10/1/03	50,000	0
34L87	AP-106	10/1/03	10/1/03	7,000	0
TAL88	AP-106	10/1/03	10/1/03	24,000	0
EVAPP	AP-106	10/1/03	10/1/03	120,000	0
WATER	SY-102	10/2/03	10/2/03	5,000	0
WATER	AP-106	10/2/03	10/2/03	3,000	0

HNF-2321
Revision 0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
WATER	AP-106	10/2/03	10/2/03	22,000	0
WATER	AP-106	10/2/03	10/2/03	5,000	0
AZ-101	AP-106	10/28/03	11/1/03	622,700	0
WASH-WATER	AZ-101	11/1/03	11/2/03	324,000	0
EVAPF	AW-102	11/3/03	11/3/03	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079
AZ-102	PIHLW FEED TANK	11/14/03	11/14/03	123,900	5,202
AW-102	242-A	1/1/04	1/6/04	954,600	40
242-A	AW-106	1/1/04	1/6/04	613,300	40
242-A	LERF	1/1/04	1/6/04	341,300	0
AW-106	AN-104	1/6/04	1/9/04	613,200	28
AP-106	AW-102	1/7/04	1/11/04	919,600	0
AZ-101	AP-106	1/11/04	1/13/04	320,000	0
WASH-WATER	AZ-101	1/14/04	1/16/04	324,000	0
RETURN 2	AP-107	1/23/04	1/23/04	8,669	331
AZ-101	AP-106	3/5/04	3/6/04	322,300	0
WASH-WATER	AZ-101	3/8/04	3/10/04	433,600	0
SX-113	SY-103	12/31/03	4/6/04	10,322	399
AW-102	242-A	5/4/04	5/9/04	919,900	33
242-A	AW-106	5/4/04	5/9/04	589,900	33
242-A	LERF	5/4/04	5/9/04	330,000	0
AW-106	AW-102	5/9/04	5/12/04	589,700	22
AW-102	242-A	5/27/04	5/30/04	589,700	22
242-A	AW-106	5/27/04	5/30/04	378,500	22
242-A	LERF	5/27/04	5/30/04	211,200	0
AW-106	AW-102	5/30/04	5/31/04	378,400	15
AP-104	AP-108	6/11/04	6/14/04	684,700	686
AW-102	242-A	6/15/04	6/16/04	378,500	15
242-A	AW-106	6/15/04	6/16/04	241,600	15
242-A	LERF	6/15/04	6/16/04	136,900	0
AW-106	AW-102	6/16/04	6/18/04	241,600	10
AW-101	AP-104	6/15/04	6/19/04	537,200	13,013
LERF	AW-101-PUMP	6/15/04	6/19/04	308,100	0
AW-101	AP-104	6/15/04	6/19/04	845,400	13,013
AW-102	242-A	7/2/04	7/3/04	241,600	10
242-A	AW-106	7/2/04	7/3/04	158,800	10
242-A	LERF	7/2/04	7/3/04	82,837	0
AN-104	AW-101	7/3/04	7/6/04	613,200	28
AW-105	AW-102	7/16/04	7/19/04	626,900	0
AW-102	242-A	8/3/04	8/6/04	627,000	21
242-A	AW-106	8/3/04	8/6/04	399,800	21
242-A	LERF	8/3/04	8/6/04	227,200	0
PIHLW FEED TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202
AZ-102	PIHLW FEED TANK	8/7/04	8/8/04	123,900	5,202
AW-106	AW-102	8/7/04	8/10/04	558,500	21
RETURN 2	AP-107	8/25/04	8/25/04	8,673	332
AW-102	242-A	8/24/04	8/27/04	558,400	21
242-A	AW-106	8/24/04	8/27/04	357,700	21
242-A	LERF	8/24/04	8/27/04	200,700	0
AW-106	AW-102	8/27/04	8/29/04	357,600	14
C-104	AY-102	8/1/04	9/8/04	279,100	9,724
AW-102	242-A	9/12/04	9/14/04	357,700	14
242-A	AW-106	9/12/04	9/14/04	229,200	14
242-A	LERF	9/12/04	9/14/04	128,500	0
AW-106	AW-102	9/14/04	9/15/04	229,200	10
AW-102	242-A	9/29/04	9/30/04	229,300	10

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	AW-106	9/29/04	9/30/04	163,700	10
242-A	LERF	9/29/04	9/30/04	65,596	0
ZNL87	SY-102	10/1/04	10/1/04	3,000	0
WESF	AP-106	10/1/04	10/1/04	5,000	0
SPN87	SY-102	10/1/04	10/1/04	2,000	0
TNS88	AP-106	10/1/04	10/1/04	750	250
TAL88	AP-106	10/1/04	10/1/04	2,000	0
WATER	AP-106	10/1/04	10/1/04	35,000	0
SPN87	SY-102	10/1/04	10/1/04	23,000	0
34L87	AP-106	10/1/04	10/1/04	50,000	0
TAL88	AP-106	10/1/04	10/1/04	22,000	0
EVAPP	AP-106	10/1/04	10/1/04	120,000	0
1FL96	AW-105	10/1/04	10/2/04	200,000	0
WATER	SY-102	10/2/04	10/2/04	1,000	0
WATER	AP-106	10/2/04	10/2/04	22,000	0
WATER	AW-105	10/2/04	10/2/04	88,000	0
WATER	AP-106	10/2/04	10/2/04	1,000	0
WATER	SY-102	10/2/04	10/3/04	5,000	0
WATER	AP-106	10/3/04	10/3/04	4,000	0
EVAPP	AW-102	10/4/04	10/4/04	50,000	0
AP-106	AW-102	10/1/04	10/5/04	919,900	266
EVAPP	AW-102	11/3/04	11/3/04	35,000	0
AX-103	AN-104	8/7/04	12/24/04	310,200	2,846
RETURN 2	AP-107	1/12/05	1/12/05	8,671	332
AW-101	AW-105	2/15/05	2/16/05	200,000	9
C-103	AN-104	12/24/04	3/9/05	271,800	10,423
AP-102	AP-108	3/5/05	3/9/05	740,300	1,581
WASH-WATER	AP-102	3/24/05	3/24/05	136,900	0
AP-102	AP-106	4/7/05	4/7/05	243,100	10,337
AY-101	AP-102	4/8/05	4/9/05	283,600	12
AW-102	242-A	4/5/05	4/10/05	1,002,000	34
242-A	AW-106	4/5/05	4/10/05	641,900	34
242-A	LERF	4/5/05	4/10/05	360,000	0
AW-106	AW-102	4/11/05	4/15/05	805,500	30
PIHLW FEED TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202
AZ-101	PIHLW FEED TANK	5/2/05	5/2/05	127,200	3,269
AW-102	242-A	4/29/05	5/3/05	805,600	30
242-A	AW-106	4/29/05	5/3/05	517,600	30
242-A	LERF	4/29/05	5/3/05	288,000	0
AW-106	AW-102	5/3/05	5/5/05	517,500	20
AW-102	242-A	5/19/05	5/22/05	517,600	20
242-A	AW-106	5/19/05	5/22/05	331,600	20
242-A	LERF	5/19/05	5/22/05	186,000	0
AW-106	AW-102	5/22/05	5/24/05	331,500	14
RETURN 2	AP-107	5/26/05	5/26/05	8,672	331
AW-102	242-A	6/7/05	6/8/05	331,600	14
242-A	AW-106	6/7/05	6/8/05	217,000	14
242-A	LERF	6/7/05	6/8/05	114,600	0
AW-106	AW-101	6/8/05	6/9/05	216,900	10
A-102	AN-104	3/9/05	6/28/05	100,600	744
AY-102	AZ-102	8/1/05	8/2/05	279,400	9,360
AN-104	AN-105	8/16/05	8/17/05	61,736	1,574
AN-104	AW-104	8/17/05	8/17/05	73,164	1,865
AN-104	AW-103	8/17/05	8/17/05	3,900	99
AN-104	AP-105	8/17/05	8/17/05	3,901	99
AN-104	AP-101	8/17/05	8/17/05	43,245	1,101

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AN-104	AN-101	8/17/05	8/18/05	19,016	484
AN-104	AN-106	8/18/05	8/18/05	4,957	126
AN-104	AP-103	8/18/05	8/18/05	42,715	1,085
ZNL87	SY-102	10/1/05	10/1/05	3,000	0
WESF	AP-106	10/1/05	10/1/05	5,000	0
TNS88	AP-106	10/1/05	10/1/05	750	250
SPN87	SY-102	10/1/05	10/1/05	25,000	0
TAL88	AP-106	10/1/05	10/1/05	24,000	0
WATER	AP-106	10/1/05	10/1/05	35,000	0
34L87	AP-106	10/1/05	10/1/05	50,000	0
EVAPP	AP-106	10/1/05	10/1/05	120,000	0
WATER	SY-102	10/2/05	10/2/05	1,000	0
WATER	SY-102	10/2/05	10/2/05	5,000	0
WATER	AP-106	10/2/05	10/2/05	5,000	0
WATER	AP-106	10/2/05	10/2/05	22,000	0
RETURN 2	AP-107	10/4/05	10/4/05	8,674	330
AP-104	AP-108	10/9/05	10/13/05	740,300	1,581
WASH-WATER	AP-104	10/27/05	10/27/05	136,900	0
EVAPP	AW-102	11/3/05	11/3/05	35,000	0
AP-104	AP-106	11/10/05	11/10/05	243,100	10,337
AN-107	AP-104	11/11/05	11/13/05	481,700	22
LERF	AN-107-PUMP	11/11/05	11/13/05	72,259	0
AN-107	AP-104	11/11/05	11/13/05	554,000	22
PIHLW FEED TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269
AZ-101	PIHLW FEED TANK	11/16/05	11/17/05	127,200	3,269
RETURN 2	AP-107	11/26/05	11/26/05	8,683	330
AW-105	AP-106	12/15/05	12/16/05	200,000	8
AP-106	AW-102	12/16/05	12/20/05	804,800	0
RETURN 2	AP-107	1/15/06	1/16/06	8,679	330
RETURN 2	AP-107	3/7/06	3/7/06	8,679	330
RETURN 2	AP-107	4/26/06	4/26/06	8,679	330
AN-104	AW-105	5/30/06	6/1/06	452,500	11,491
PIHLW FEED TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269
AZ-101	PIHLW FEED TANK	6/2/06	6/3/06	127,200	3,269
AP-108	LAW-CONTRACTOR-2	6/1/06	6/11/06	4,223,000	5,051
AP-102	AP-108	6/11/06	6/12/06	277,300	552
AN-107	AP-102	6/13/06	6/15/06	481,700	22
LERF	AN-107-PUMP	6/13/06	6/15/06	72,260	0
AN-107	AP-102	6/13/06	6/15/06	554,000	22
RETURN 2	AP-107	6/15/06	6/15/06	8,686	330
AW-102	242-A	6/19/06	6/23/06	839,900	31
242-A	AW-106	6/19/06	6/23/06	539,900	31
242-A	LERF	6/19/06	6/23/06	300,000	0
AZ-102	AP-106	6/23/06	6/23/06	159,500	0
WASH-WATER	AZ-102	6/24/06	6/25/06	324,000	0
AW-106	AW-102	6/24/06	6/27/06	539,800	21
AW-102	242-A	7/11/06	7/13/06	540,000	21
242-A	AW-106	7/11/06	7/13/06	346,600	21
242-A	LERF	7/11/06	7/13/06	193,400	0
AW-106	AW-102	7/13/06	7/15/06	346,500	15
RETURN 2	AP-107	7/21/06	7/21/06	8,678	328
AW-102	242-A	7/29/06	7/31/06	346,600	14
242-A	AW-106	7/29/06	7/31/06	222,700	14
242-A	LERF	7/29/06	7/31/06	124,000	0
AW-106	AW-101	7/31/06	8/1/06	222,600	10
AP-108	LAW-CONTRACTOR-2	6/12/06	8/11/06	277,300	555

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AP-104	AP-108	8/11/06	8/12/06	171,100	337
AZ-102	AP-106	8/13/06	8/15/06	320,100	0
WASH-WATER	AZ-102	8/16/06	8/18/06	324,000	0
RETURN 2	AP-107	9/4/06	9/4/06	8,678	329
AP-104	AP-108	9/8/06	9/10/06	381,800	753
AN-102	AP-104	9/11/06	9/14/06	443,500	21
LERF	AN-102-PUMP	9/11/06	9/14/06	266,100	0
AN-102	AP-104	9/11/06	9/14/06	709,700	21
AN-104	AN-107	9/13/06	9/16/06	416,900	10,577
WESP	AP-106	10/1/06	10/1/06	5,000	0
TNS88	AP-106	10/1/06	10/1/06	750	250
34L87	AP-106	10/1/06	10/1/06	7,000	0
SPN87	SY-102	10/1/06	10/1/06	25,000	0
WATER	AP-106	10/1/06	10/1/06	35,000	0
TAL88	AP-106	10/1/06	10/1/06	25,000	0
34L87	AP-106	10/1/06	10/1/06	50,000	0
EVAPF	AP-106	10/1/06	10/1/06	120,000	0
WATER	SY-102	10/2/06	10/2/06	5,000	0
WATER	AP-106	10/2/06	10/2/06	3,000	0
WATER	AP-106	10/2/06	10/2/06	5,000	0
WATER	AP-106	10/2/06	10/2/06	22,000	0
EVAPF	AW-102	10/4/06	10/4/06	50,000	0
AP-106	AW-102	10/1/06	10/5/06	749,400	0
AZ-102	AP-106	10/6/06	10/8/06	322,700	0
WASH-WATER	AZ-102	10/9/06	10/9/06	150,500	0
RETURN 2	AP-107	10/30/06	10/30/06	8,670	330
EVAPF	AW-102	11/3/06	11/3/06	35,000	0
C-105	AN-104	6/28/05	11/13/06	827,500	31,875
PIHLW FEED TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269
AZ-101	PIHLW FEED TANK	12/18/06	12/18/06	127,200	3,269
RETURN 2	AP-107	12/25/06	12/25/06	8,683	330
AP-102	AP-108	1/19/07	1/21/07	559,200	575
AN-103	AP-102	1/22/07	1/25/07	436,600	28,133
LERF	AN-103-PUMP	1/22/07	1/25/07	264,900	0
AN-103	AP-102	1/22/07	1/25/07	738,300	549
RETURN 2	AP-107	2/20/07	2/20/07	8,676	330
A-104	AN-104	11/13/06	2/22/07	29,827	832
C-204	AN-104	2/22/07	3/1/07	3,775	55
C-201	AN-104	3/1/07	3/7/07	2,464	59
AW-102	242-A	4/4/07	4/9/07	834,500	29
242-A	AW-106	4/4/07	4/9/07	534,500	29
242-A	LERF	4/4/07	4/9/07	300,000	0
AX-104	AN-104	3/7/07	4/12/07	18,516	572
AW-106	AW-102	4/9/07	4/12/07	534,400	19
RETURN 2	AP-107	4/19/07	4/19/07	8,672	330
AW-102	242-A	4/26/07	4/29/07	534,500	19
242-A	AW-106	4/26/07	4/29/07	342,500	19
242-A	LERF	4/26/07	4/29/07	192,000	0
AW-106	AW-102	4/29/07	5/1/07	342,500	13
AW-102	242-A	5/15/07	5/16/07	342,600	13
242-A	AW-106	5/15/07	5/16/07	217,600	13
242-A	LERF	5/15/07	5/16/07	125,000	0
AW-106	AW-102	5/16/07	5/17/07	217,500	8
AW-102	AP-106	5/19/07	5/20/07	217,700	8
RETURN 2	AP-107	6/16/07	6/16/07	8,672	330
PIHLW FEED TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AZ-101	PIHLW FEED TANK	7/4/07	7/5/07	127,200	3,269
AX-102	AN-104	4/12/07	7/31/07	87,597	897
AP-104	AP-108	8/2/07	8/6/07	709,600	72
AN-103	AP-104	8/7/07	8/10/07	436,600	28,133
LERF	AN-103-PUMP	8/7/07	8/10/07	264,900	0
AN-103	AP-104	8/7/07	8/10/07	738,300	549
RETURN 2	AP-107	8/22/07	8/22/07	8,675	330
WESF	AP-106	10/1/07	10/1/07	5,000	0
TNS88	AP-106	10/1/07	10/1/07	750	250
SPN87	SY-102	10/1/07	10/1/07	25,000	0
TAL88	AP-106	10/1/07	10/1/07	25,000	0
WATER	AP-106	10/1/07	10/1/07	35,000	0
34L87	AP-106	10/1/07	10/1/07	50,000	0
EVAPF	AP-106	10/1/07	10/1/07	120,000	0
WATER	SY-102	10/2/07	10/2/07	5,000	0
WATER	AP-106	10/2/07	10/2/07	5,000	0
WATER	AP-106	10/2/07	10/2/07	22,000	0
AP-106	AW-102	10/1/07	10/5/07	800,200	0
EVAPF	AW-102	11/3/07	11/3/07	35,000	0
AN-104	AN-107	11/4/07	11/6/07	546,400	10,567
AN-104	AN-102	11/6/07	11/9/07	498,900	9,640
SY-101	AN-103	11/8/07	11/12/07	1,105,000	11,018
RETURN 2	AP-107	11/28/07	11/28/07	8,675	329
PIHLW FEED TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269
AZ-102	PIHLW FEED TANK	1/18/08	1/19/08	137,700	4,774
RETURN 2	AP-107	3/5/08	3/5/08	8,675	329
AW-102	242-A	4/4/08	4/8/08	835,200	29
242-A	AW-106	4/4/08	4/8/08	535,200	29
242-A	LERF	4/4/08	4/8/08	300,000	0
AP-108	LAW-CONTRACTOR-2	8/12/06	4/9/08	1,822,000	1,786
AW-106	AW-102	4/9/08	4/11/08	535,100	19
AP-102	AP-108	4/9/08	4/13/08	738,300	557
AW-102	242-A	4/25/08	4/28/08	535,200	19
242-A	AW-106	4/25/08	4/28/08	343,200	19
242-A	LERF	4/25/08	4/28/08	192,000	0
AW-106	AW-102	4/28/08	4/30/08	343,100	13
S-103	SY-101	12/31/03	5/5/08	712,300	1,011
AW-102	242-A	5/14/08	5/16/08	343,200	13
242-A	AW-106	5/14/08	5/16/08	218,000	13
242-A	LERF	5/14/08	5/16/08	125,200	0
AW-106	AW-102	5/16/08	5/17/08	217,900	8
AW-102	AP-106	5/18/08	5/19/08	218,100	8
RETURN 2	AP-107	8/9/08	8/9/08	8,672	330
WESF	AP-106	10/1/08	10/1/08	5,000	0
TNS88	AP-106	10/1/08	10/1/08	750	250
SPN87	SY-102	10/1/08	10/1/08	25,000	0
TAL88	AP-106	10/1/08	10/1/08	25,000	0
WATER	AP-106	10/1/08	10/1/08	35,000	0
34L87	AP-106	10/1/08	10/1/08	50,000	0
EVAPF	AP-106	10/1/08	10/1/08	120,000	0
WATER	SY-102	10/2/08	10/2/08	5,000	0
WATER	AP-106	10/2/08	10/2/08	5,000	0
WATER	AP-106	10/2/08	10/2/08	22,000	0
EVAPF	AW-102	10/4/08	10/4/08	50,000	0
EVAPF	AW-102	11/3/08	11/3/08	35,000	0
PIHLW FEED TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
AZ-102	PIHLW FEED TANK	12/22/08	12/22/08	137,700	4,774
AP-104	AP-108	1/4/09	1/8/09	738,400	532
U-202	UA-2	1/3/09	1/10/09	27,411	1,061
U-203	UA-2	1/10/09	1/16/09	13,895	537
RETURN 2	AP-107	2/7/09	2/7/09	8,670	331
U-110	UA-2	1/16/09	3/10/09	99,290	4,252
UA-2	SY-102	3/11/09	3/12/09	173,900	5,847
U-110	UA-1	3/10/09	5/27/09	143,800	6,160
UA-1	SY-102	5/28/09	5/29/09	186,800	6,157
U-110	UA-2	5/27/09	5/30/09	4,829	207
U-101	UA-2	5/30/09	7/30/09	27,955	668
RETURN 2	AP-107	8/8/09	8/8/09	8,670	331
TNS88	AP-106	10/1/09	10/1/09	750	250
WESF	AP-106	10/1/09	10/1/09	5,000	0
34L87	AP-106	10/1/09	10/1/09	7,000	0
SPN87	SY-102	10/1/09	10/1/09	25,000	0
WATER	AP-106	10/1/09	10/1/09	35,000	0
TAL88	AP-106	10/1/09	10/1/09	26,000	0
34L87	AP-106	10/1/09	10/1/09	50,000	0
EVAPF	AP-106	10/1/09	10/1/09	120,000	0
WATER	SY-102	10/2/09	10/2/09	5,000	0
WATER	AP-106	10/2/09	10/2/09	22,000	0
WATER	AP-106	10/2/09	10/2/09	5,000	0
WATER	AP-106	10/2/09	10/2/09	3,000	0
AP-106	AW-102	10/1/09	10/5/09	748,900	0
EVAPF	AW-102	11/3/09	11/3/09	35,000	0
U-104	UA-2	7/30/09	11/9/09	50,908	1,221
PIHLW FEED TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774
AP-108	LAW-CONTRACTOR-2	4/13/08	11/27/09	1,477,000	1,076
RETURN 1	AP-107	11/28/09	11/28/09	0	0
RETURN 2	AP-107	11/28/09	11/28/09	5,272	201
U-112	UA-2	11/9/09	12/5/09	58,521	2,330
UA-2	SY-102	12/5/09	12/6/09	154,400	4,426
AP-107	AZ-101	12/8/09	12/10/09	395,800	7,587
AN-103	AP-107	12/18/09	12/23/09	1,104,000	12,373
SY-103	AN-103	12/23/09	12/27/09	1,083,000	32,723
U-112	UA-1	12/5/09	1/17/10	102,000	4,061
U-204	UA-1	1/17/10	1/23/10	13,004	503
U-201	UA-1	1/23/10	1/27/10	13,912	538
U-201	UA-2	1/27/10	1/30/10	13,499	522
U-106	UA-2	1/30/10	3/1/10	134,400	338
SX-112	SY-103	4/6/04	3/15/10	397,100	16,406
AW-102	242-A	4/4/10	4/9/10	868,800	30
242-A	AW-106	4/4/10	4/9/10	556,800	30
242-A	LERF	4/4/10	4/9/10	312,000	0
AW-106	AW-102	4/9/10	4/12/10	556,700	20
AW-102	242-A	4/26/10	4/29/10	556,900	20
242-A	AW-106	4/26/10	4/29/10	356,900	20
242-A	LERF	4/26/10	4/29/10	200,000	0
AW-106	AW-102	4/29/10	5/1/10	356,800	13
AW-102	242-A	5/15/10	5/17/10	356,900	13
242-A	AW-106	5/15/10	5/17/10	228,000	13
242-A	LERF	5/15/10	5/17/10	128,900	0
AW-106	AW-102	5/17/10	5/18/10	227,900	9
AW-102	242-A	6/1/10	6/2/10	228,000	9
242-A	AW-106	6/1/10	6/2/10	144,500	9

HNF-2321
Revision 0

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
242-A	LERF	6/1/10	6/2/10	83,532	0
AW-106	AW-102	6/2/10	6/3/10	144,400	6
AW-102	AP-106	6/4/10	6/5/10	144,600	6
SX-110	SY-103	3/15/10	7/18/10	212,700	8,909
SX-115	SY-103	7/18/10	9/18/10	42,100	1,556
SPN87	SY-102	10/1/10	10/1/10	25,000	0
WATER	AP-106	10/1/10	10/1/10	25,000	0
WESF	AP-106	10/1/10	10/1/10	5,000	0
TNS88	AP-106	10/1/10	10/1/10	750	250
TAL88	AP-106	10/1/10	10/1/10	26,000	0
WATER	AP-106	10/1/10	10/1/10	35,000	0
34L87	AP-106	10/1/10	10/1/10	50,000	0
EVAPF	AP-106	10/1/10	10/1/10	120,000	0
WATER	SY-102	10/2/10	10/2/10	5,000	0
WATER	AP-106	10/2/10	10/2/10	22,000	0
WATER	AP-106	10/2/10	10/2/10	5,000	0
EVAPF	AW-102	10/4/10	10/4/10	50,000	0
EVAPF	AW-102	11/3/10	11/3/10	35,000	0
WATER	AP-106	1/1/11	1/1/11	25,000	0
BY-110	BA-3	1/3/11	2/8/11	147,400	2,633
TX-109	TA-5	1/3/11	2/10/11	144,100	5,925
SX-111	SY-103	9/18/10	2/10/11	451,500	19,767
TY-101	TA-4	1/3/11	2/22/11	146,500	3,494
T-106	TA-6	1/3/11	3/2/11	74,648	2,929
B-112	BA-1	1/3/11	3/9/11	75,213	1,083
BY-110	BA-4	2/8/11	3/16/11	147,400	2,633
TX-109	TA-3	2/10/11	3/19/11	144,100	5,925
T-101	TA-6	3/2/11	3/25/11	61,377	2,346
WATER	AP-106	4/1/11	4/1/11	25,000	0
BX-102	BA-2	1/3/11	4/4/11	52,548	2,443
B-111	BA-1	3/9/11	4/9/11	72,630	2,383
TY-101	TA-2	2/22/11	4/13/11	146,500	3,494
BY-110	BA-5	3/16/11	4/21/11	147,400	2,633
TX-109	TA-1	3/19/11	4/26/11	144,100	5,925
BX-112	BA-2	4/4/11	5/2/11	67,370	2,937
AN-104	AP-104	6/1/11	6/1/11	55,264	1,061
BA-3	AP-108	6/1/11	6/2/11	155,600	2,631
BA-4	AP-104	6/1/11	6/2/11	155,600	2,631
BA-1	AP-108	6/2/11	6/2/11	157,300	3,464
BA-5	AP-104	6/2/11	6/3/11	155,600	2,631
BA-2	AP-108	6/2/11	6/3/11	174,500	5,377
AN-103	AP-102	6/1/11	6/6/11	1,084,000	32,225
AN-103	AP-104	6/6/11	6/6/11	972	28
SY-101	AN-103	6/6/11	6/10/11	1,115,000	1,877
B-111	BA-6	4/9/11	6/11/11	145,200	4,764
BA-6	AP-108	6/11/11	6/12/11	159,400	4,762
AN-103	AP-104	6/11/11	6/14/11	741,100	1,724
AN-103	AP-108	6/14/11	6/16/11	373,800	869
SY-102	AN-103	6/16/11	6/20/11	1,004,000	42,735
UA-1	SY-102	1/28/10	6/20/11	146,500	5,102
AN-103	AP-108	6/20/11	6/20/11	75,598	3,136
UA-2	SY-102	6/20/11	6/21/11	151,500	862
TA-5	SY-102	6/21/11	6/22/11	180,300	5,922
TA-4	SY-102	6/22/11	6/23/11	143,200	3,492
TA-3	SY-102	6/23/11	6/24/11	180,300	5,922
TA-6	SY-102	6/24/11	6/25/11	154,500	5,272

Table A.6-1. Complete Transfer List for Case 6.

From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)
TA-2	SY-102	6/25/11	6/25/11	143,200	3,492
WATER	AP-106	7/1/11	7/1/11	25,000	0
BY-110	BA-4	6/2/11	7/8/11	147,300	2,631
TY-101	TA-5	6/22/11	7/13/11	59,942	1,430
U-106	UA-1	6/20/11	7/24/11	149,500	376
TX-109	TA-4	6/23/11	7/31/11	144,000	5,921
BX-112	BA-3	6/2/11	8/2/11	143,600	6,262
B-111	BA-1	6/11/11	8/12/11	145,100	4,761
B-111	BA-6	8/12/11	8/13/11	719	24
BY-110	BA-5	7/8/11	8/13/11	147,300	2,631
T-101	TA-3	6/24/11	8/19/11	144,400	5,519
U-106	UA-2	7/24/11	8/26/11	149,500	376
T-101	TA-2	8/19/11	9/1/11	34,122	1,304
BX-112	BA-2	8/2/11	9/4/11	78,662	3,430
TX-109	TA-6	7/31/11	9/6/11	144,000	5,921
BY-110	BA-2	9/4/11	9/14/11	40,856	730

Table A.6-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 6.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
X	AP-108	AP-106	3/15/99	3/15/99	500	0	Empty 8AP
X	AP-102	AP-103	5/1/99	5/6/99	1,070,000	0	Empty 2AP
X	AP-104	AW-102	7/2/01	7/6/01	918,300	0	Empty 4AP
X	AZ-101	AY-101	8/17/00	8/20/00	685,000	0	Pre-Stage Envelope B
	WASH-WATER	AP-104	8/1/01	8/2/01	200,000	0	Flush Water to 4AP
	AP-104	AP-102	8/15/01	8/16/01	201,100	33	Flush 4AP
	AP-102	AP-106	9/1/01	9/2/01	201,100	29	Flush 2AP
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Pre-Stage Envelope B
	AN-105	AP-102	9/15/01	9/18/01	542,400	7,895	Retrieve/Stage LAW Batch 1, Envelope A
	LERF	AN-105-PUMP	9/15/01	9/18/01	154,100	0	Dilution Water
	AN-105	AP-102	9/15/01	9/18/01	686,500	294	As-received Ghost
	AN-105	AP-104	9/19/01	9/22/01	542,400	7,895	Retrieve/Stage LAW Batch 2, Envelope A
	LERF	AN-105-PUMP	9/19/01	9/22/01	154,100	0	Dilution Water
	AN-105	AP-104	9/19/01	9/22/01	686,500	294	As-received Ghost
	WASH-WATER	AP-108	10/5/01	10/6/01	200,000	0	Flush Water to 8AP
	AP-108	AP-106	11/5/01	11/5/01	200,000	1	Flush 8AP
	AP-102	AP-108	1/8/02	1/12/02	686,500	286	Deliver LAW Batch 1
	AN-104	AP-102	1/12/02	1/15/02	502,200	12,513	Retrieve/Stage LAW Batch 3, Envelope A
	LERF	AN-104-PUMP	1/12/02	1/15/02	200,800	0	Dilution Water
	AN-104	AP-102	1/12/02	1/15/02	684,700	702	As-received Ghost
	AP-104	AP-108	1/4/03	1/8/03	686,500	287	Deliver LAW Batch 2
	AN-104	AP-104	1/9/03	1/12/03	502,200	12,513	Retrieve/Stage LAW Batch 4, Envelope A
	LERF	AN-104-PUMP	1/9/03	1/12/03	200,800	0	Dilution Water
	AN-104	AP-104	1/9/03	1/12/03	684,700	702	As-received Ghost
	RETURN 2	AP-107	3/28/03	3/28/03	8,669	331	Returns From Contractor
	AP-102	AP-108	9/17/03	9/21/03	684,700	686	Deliver LAW Batch 3
	AW-101	AP-102	9/22/03	9/26/03	537,200	13,013	Retrieve/Stage LAW Batch 5, Envelope A
	LERF	AW-101-PUMP	9/22/03	9/26/03	308,100	0	Dilution Water
	AW-101	AP-102	9/22/03	9/26/03	845,400	13,013	As-received Ghost
	RETURN 2	AP-107	1/23/04	1/23/04	8,669	331	Returns From Contractor
	AP-104	AP-108	6/11/04	6/14/04	684,700	686	Deliver LAW Batch 4
	AW-101	AP-104	6/15/04	6/19/04	537,200	13,013	Retrieve/Stage LAW Batch 6, Envelope A
	LERF	AW-101-PUMP	6/15/04	6/19/04	308,100	0	Dilution Water
	AW-101	AP-104	6/15/04	6/19/04	845,400	13,013	As-received Ghost
	RETURN 2	AP-107	8/25/04	8/25/04	8,673	332	Returns From Contractor
	RETURN 2	AP-107	1/12/05	1/12/05	8,671	332	Returns From Contractor
	AP-102	AP-108	3/5/05	3/9/05	740,300	1,581	Deliver LAW Batch 5
	WASH-WATER	AP-102	3/24/05	3/24/05	136,900	0	Flush Water to 2AP
	AP-102	AP-106	4/7/05	4/7/05	243,100	10,337	Flush 2AP
	AY-101	AP-102	4/8/05	4/9/05	283,600	12	Retrieve/Stage LAW Batch 7, Envelope B
	RETURN 2	AP-107	5/26/05	5/26/05	8,672	331	Returns From Contractor
	RETURN 2	AP-107	10/4/05	10/4/05	8,674	330	Returns From Contractor
	AP-104	AP-108	10/9/05	10/13/05	740,300	1,581	Deliver LAW Batch 6
	WASH-WATER	AP-104	10/27/05	10/27/05	136,900	0	Flush Water to 4AP
	AP-104	AP-106	11/10/05	11/10/05	243,100	10,337	Flush 4AP
	AN-107	AP-104	11/11/05	11/13/05	481,700	22	Retrieve/Stage LAW Batch 8/9, Envelope C
	LERF	AN-107-PUMP	11/11/05	11/13/05	72,259	0	Dilution Water
	AN-107	AP-104	11/11/05	11/13/05	554,000	22	As-received Ghost
	RETURN 2	AP-107	11/26/05	11/26/05	8,683	330	Returns From Contractor
	RETURN 2	AP-107	1/15/06	1/16/06	8,679	330	Returns From Contractor
	RETURN 2	AP-107	3/7/06	3/7/06	8,679	330	Returns From Contractor
	RETURN 2	AP-107	4/26/06	4/26/06	8,679	330	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	6/1/02	6/11/06	4,223,000	5,051	Complete Processing Envelope A
	AP-102	AP-108	6/11/06	6/12/06	277,300	552	Deliver LAW Batch 7
	AN-107	AP-102	6/13/06	6/15/06	481,700	22	Retrieve/Stage LAW Batch 10, Envelope C
	LERF	AN-107-PUMP	6/13/06	6/15/06	72,260	0	Dilution Water

HNF-2321
Revision 0

Table A.6-2. Phase 1 Low-Activity Waste Feed Staging Transfers for Case 6.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AN-107	AP-102	6/13/06	6/15/06	554,000	22	As-received Ghost
	RETURN 2	AP-107	6/15/06	6/15/06	8,686	330	Returns From Contractor
	RETURN 2	AP-107	7/21/06	7/21/06	8,678	328	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	6/12/06	8/11/06	277,300	555	Complete Processing Envelope B
	AP-104	AP-108	8/11/06	8/12/06	171,100	337	Deliver LAW Batch 8
	RETURN 2	AP-107	9/4/06	9/4/06	8,678	329	Returns From Contractor
	AP-104	AP-108	9/8/06	9/10/06	381,800	753	Deliver LAW Batch 9
	AN-102	AP-104	9/11/06	9/14/06	443,500	21	Retrieve/Stage LAW Batch 11, Envelope C
	LERF	AN-102-PUMP	9/11/06	9/14/06	266,100	0	Dilution Water
	AN-102	AP-104	9/11/06	9/14/06	709,700	21	As-received Ghost
	RETURN 2	AP-107	10/30/06	10/30/06	8,670	330	Returns From Contractor
	RETURN 2	AP-107	12/25/06	12/25/06	8,683	330	Returns From Contractor
	AP-102	AP-108	1/19/07	1/21/07	559,200	575	Deliver LAW Batch 10
	AN-103	AP-102	1/22/07	1/25/07	436,600	28,133	Retrieve/Stage LAW Batch 12, Envelope A
	LERF	AN-103-PUMP	1/22/07	1/25/07	264,900	0	Dilution Water
	AN-103	AP-102	1/22/07	1/25/07	738,300	549	As-received Ghost
	RETURN 2	AP-107	2/20/07	2/20/07	8,676	330	Returns From Contractor
	RETURN 2	AP-107	4/19/07	4/19/07	8,672	330	Returns From Contractor
	RETURN 2	AP-107	6/16/07	6/16/07	8,672	330	Returns From Contractor
	AP-104	AP-108	8/2/07	8/6/07	709,600	72	Deliver LAW Batch 11
	AN-103	AP-104	8/7/07	8/10/07	436,600	28,133	Retrieve/Stage LAW Batch 13, Envelope A
	LERF	AN-103-PUMP	8/7/07	8/10/07	264,900	0	Dilution Water
	AN-103	AP-104	8/7/07	8/10/07	738,300	549	As-received Ghost
	RETURN 2	AP-107	8/22/07	8/22/07	8,675	330	Returns From Contractor
	RETURN 2	AP-107	11/28/07	11/28/07	8,675	329	Returns From Contractor
	RETURN 2	AP-107	3/5/08	3/5/08	8,675	329	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	8/12/06	4/9/08	1,822,000	1,786	Complete Processing Envelope C
	AP-102	AP-108	4/9/08	4/13/08	738,300	557	Deliver LAW Batch 12
	RETURN 2	AP-107	8/9/08	8/9/08	8,672	330	Returns From Contractor
	AP-104	AP-108	1/4/09	1/8/09	738,400	532	Deliver LAW Batch 13
	RETURN 2	AP-107	2/7/09	2/7/09	8,670	331	Returns From Contractor
	RETURN 2	AP-107	8/8/09	8/8/09	8,670	331	Returns From Contractor
	AP-108	LAW-CONTRACTOR-2	4/13/08	11/27/09	1,477,000	1,076	Complete Processing Extended Order Envelope A
	RETURN 2	AP-107	11/28/09	11/28/09	5,272	201	Returns From Contractor
X	AP-107	AZ-101	12/8/09	12/10/09	395,800	7,587	Transfer Returns to AZ-101 (Phase 2 HLW Tank)

Table A.6-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 6.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	AY-102	C-106	7/1/98	7/5/98	920,700	31	Sludge "Water" for C-106 Retrieval - Lumped (See Below)
	C-106	AY-102	7/15/98	11/10/98	809,000	15,169	C-106 Retrieval (Project W-320)
X	AZ-101	AP-107	8/20/00	8/20/00	0	0	Initial Decant 1AZ
	WASH-WATER	AZ-101	8/20/00	8/21/00	146,000	0	First Wash 1AZ
	AZ-101	AP-106	10/9/00	10/10/00	143,200	0	First Decant 1AZ
	WASH-WATER	AZ-101	10/11/00	10/12/00	146,000	0	Second Wash 1AZ
	AZ-101	AP-106	11/30/00	12/1/00	140,200	0	Second Decant 1AZ
	WASH-WATER	AZ-101	12/2/00	12/2/00	146,000	0	Third Wash 1AZ
	AZ-101	AP-106	1/20/01	1/21/01	142,900	0	Third Decant 1AZ
	WASH-WATER	AZ-101	1/22/01	1/23/01	138,200	0	Transfer Water Add 1AZ
X	AZ-102	AY-101	11/14/01	11/15/01	204,000	0	Initial Decant 2AZ
X	AZ-102	AP-107	11/15/01	11/16/01	181,800	0	Complete Initial Decant 2AZ
	WASH-WATER	AZ-102	11/16/01	11/17/01	213,000	0	First Wash 2AZ
	AZ-102	AP-106	1/6/02	1/6/02	127,700	0	First Decant 2AZ
	WASH-WATER	AZ-102	1/7/02	1/8/02	213,000	0	Second Wash 2AZ
	AZ-102	AP-106	2/27/02	2/28/02	210,300	0	Second Decant 2AZ
	WASH-WATER	AZ-102	3/1/02	3/2/02	213,000	0	Third Wash 2AZ
	AZ-101	PIHLW_FEED_TANK	5/17/02	5/17/02	134,300	5,079	Deliver Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-102	AP-106	6/11/02	6/12/02	211,800	0	Third Decant 2AZ
	WASH-WATER	AZ-102	6/13/02	6/14/02	213,000	0	Fourth Wash 2AZ
	AZ-102	AP-106	8/2/02	8/3/02	212,500	0	Fourth Decant 2AZ
	WASH-WATER	AZ-102	8/4/02	8/5/02	110,000	0	Transfer Water Add 2AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/1/02	2/21/03	134,300	5,079	Process Batch 1 of 1AZ, Envelope D (Batch 1 Overall)
	AZ-101	PIHLW_FEED_TANK	2/21/03	2/21/03	134,300	5,079	Deliver Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
X	AY-102	AZ-101	2/26/03	3/2/03	819,600	16,032	Transfer 2AY/6C Slurry to 1AZ for Pretreatment
	AZ-101	AP-106	10/28/03	11/1/03	622,700	0	Initial Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	11/1/03	11/2/03	324,000	0	First Wash 2AY/6C Slurry in 1AZ
	PIHLW_FEED_TANK	HLW-CONTRACTOR	2/22/03	11/14/03	134,300	5,079	Process Batch 2 of 1AZ, Envelope D (Batch 2 Overall)
	AZ-102	PIHLW_FEED_TANK	11/14/03	11/14/03	123,900	5,202	Deliver Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-101	AP-106	1/11/04	1/13/04	320,000	0	First Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	1/14/04	1/16/04	324,000	0	Second Wash 2AY/6C Slurry in 1AZ
	AZ-101	AP-106	3/5/04	3/6/04	322,300	0	Second Decant 2AY/6C Slurry from 1AZ
	WASH-WATER	AZ-101	3/8/04	3/10/04	433,600	0	Transfer Water Add 1AZ for 2AY/6C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/14/03	8/7/04	123,900	5,202	Process Batch 1 of 2AZ, Envelope D (Batch 3 Overall)
	AZ-102	PIHLW_FEED_TANK	8/7/04	8/8/04	123,900	5,202	Deliver Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	C-104	AY-102	8/1/04	9/8/04	279,100	9,724	C-104 Retrieval (Project W-???)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	8/8/04	5/2/05	123,900	5,202	Process Batch 2 of 2AZ, Envelope D (Batch 4 Overall)
	AZ-101	PIHLW_FEED_TANK	5/2/05	5/2/05	127,200	3,269	Deliver Batch 1 of 2AY/6C from 1AZ, Envelope D (Batch 5 Overall)
	AY-102	AZ-102	8/1/05	8/2/05	279,400	9,360	Transfer 4C Slurry to 2AZ for Pretreatment
	PIHLW_FEED_TANK	HLW-CONTRACTOR	5/2/05	11/16/05	127,200	3,269	Process Batch 1 of 2AY/6C, Envelope D (Batch 5 Overall)
	AZ-101	PIHLW_FEED_TANK	11/16/05	11/17/05	127,200	3,269	Deliver Batch 2 of 2AY/6C from 1AZ, Envelope D (Batch 6 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	11/17/05	6/2/06	127,200	3,269	Process Batch 2 of 2AY/6C, Envelope D (Batch 6 Overall)
	AZ-101	PIHLW_FEED_TANK	6/2/06	6/3/06	127,200	3,269	Deliver Batch 3 of 2AY/6C from 1AZ, Envelope D (Batch 7 Overall)
	AZ-102	AP-106	6/23/06	6/23/06	159,500	0	Initial Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	6/24/06	6/25/06	324,000	0	First Wash 4C Slurry in 2AZ
	AZ-102	AP-106	8/13/06	8/15/06	320,100	0	First Decant 4C Slurry from 2AZ
	WASH-WATER	AZ-102	8/16/06	8/18/06	324,000	0	Second Wash 4C Slurry in 2AZ
	AZ-102	AP-106	10/6/06	10/8/06	322,700	0	Second Decant 4C Slurry from 2AZ

HNF-2321
Revision 0

Table A.6-3. Phase 1 High-Level Waste Feed Staging Transfers for Case 6.

Boot Strap	From	To	Start Date	End Date	Liquid (gallons)	Solid (gallons)	Notes
	WASH-WATER	AZ-102	10/9/06	10/9/06	150,500	0	Transfer Water Add 2AZ for 4C Slurry
	PIHLW_FEED_TANK	HLW-CONTRACTOR	6/3/06	12/18/06	127,200	3,269	Process Batch 3 of 2AY/6C, Envelope D (Batch 7 Overall)
	AZ-101	PIHLW_FEED_TANK	12/18/06	12/18/06	127,200	3,269	Deliver Batch 4 of 2AY/6C from 1AZ, Envelope D (Batch 8 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/18/06	7/4/07	127,200	3,269	Process Batch 4 of 2AY/6C, Envelope D (Batch 8 Overall)
	AZ-101	PIHLW_FEED_TANK	7/4/07	7/5/07	127,200	3,269	Deliver Batch 5 of 2AY/6C from 1AZ, Envelope D (Batch 9 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	7/5/07	1/18/08	127,200	3,269	Process Batch 5 of 2AY/6C, Envelope D (Batch 9 Overall)
	AZ-102	PIHLW_FEED_TANK	1/18/08	1/19/08	137,700	4,774	Deliver Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	1/19/08	12/22/08	137,700	4,774	Process Batch 1 of 4C from 2AZ, Envelope D (Batch 10 Overall)
	AZ-102	PIHLW_FEED_TANK	12/22/08	12/22/08	137,700	4,774	Deliver Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
	PIHLW_FEED_TANK	HLW-CONTRACTOR	12/22/08	11/25/09	137,700	4,774	Process Batch 2 of 4C from 2AZ, Envelope D (Batch 11 Overall)
X	AP-107	AZ-101	12/8/09	12/10/09	395,800	7,587	LAW Returns to 1AZ

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