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Savannah River Site Prioritization of Transition Activities^(U)

**Robert H. Finley
Transition, Decontamination and Decommissioning**

November 1993

SAVANNAH RIVER SITE

**Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808**

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I. Introduction

Effective management of SRS conversion from primarily a production facility to other missions (or Decontamination and Decommissioning (D&D)) requires a systematic and consistent method of prioritizing the transition activities. This report discusses a prioritizing method developed to achieve the following goals by:

- appropriately considering the most significant attributes associated with transition activities, including costs
- being sufficiently clear and logical to achieve consensus on the priorities developed
- providing consistency of methodology with sufficient flexibility to afford programmatic and/or policy revisions
- affording direct correlation with the budgeting process
- requiring minimal staff level support to maintain and update/revise.

Development of this prioritizing process was undertaken at the verbal request of L. C. Sjostrom of DOE-SR.

II. Background

The fundamental reason to prioritize transition activities is to assure the highest success in achieving the objectives of an organization within the externally imposed restrictions of time and resources. Additionally, a comprehensive prioritization method will readily identify those objectives

that can and cannot be achieved within time and resource restrictions. A typical prioritization process could result in deferring low priority activities so long that they never get completed. This is acceptable in many cases; however, in transition activities, the prioritization process can only determine when (now or later); not whether the activities should be scheduled.

Evaluation of priorities for activities involves many non-related considerations of various organizational objectives of activity timing, funding timing, and the availability of unique personnel skills. Although it is impractical to expect a mathematical model to completely link all these considerations, generalized methods have been developed to significantly combine many considerations in a way to simplify overall management assessment and enhance overall process confidence.

Typically the most effective (and accepted) methods to prioritize are based on the "weighted attribute" concept consisting of five basic steps: 1) defining the attributes (objectives, missions, etc.) of the organization's efforts; 2) assigning a numerical relative worth to each attribute (the attribute weight); 3) scoring each activity "contribution" to each attribute; 4) calculating a "weighted score" for the activity; and 5) sorting the activities in descending order of the calculated "weighted scores".

Ample precedence, discussed in References 1 through 4, shows a successful track record for this method. However, there are several shortcomings to the basic approach discussed above. One is that no

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provisions are typically made for linking separate activities that must be completed in sequence. Another is that the timing of resource availability is difficult to integrate into the attribute selection. Finally, a high priority activity, if scheduled, may consume all available fiscal resources to the exclusion of other activities of similar priority.

Several "grouping of activities" approaches were tried in the prioritization of transition activities to overcome these shortcomings. However, these grouping approaches required significant deviations from the goal of keeping the prioritizations aligned with the budget process as defined by the Activity Data Sheets. The methodology discussed below describes the process selected and the methods of overcoming the shortcomings in the basic approach.

III. General Methodology

The basic approach to prioritization is to rank activities according to a *modified "cost-benefit ratio" (CBR)* where cost is related to the latest cost estimate available for completing the activity and the "benefit" is a summation for all of the attributes of a score for the attribute times a relative weight for that attribute.

The attributes chosen are discussed in section IV below. The actual "cost" used in the CBR equation is [(estimated cost) X (a cost quality factor)] {raised to the exponent of 0.25}.

The attribute relative weights are independent of transition activities. Transition activities may be completed within a fiscal year or may extend over several years.

Prioritization for a single fiscal year is achieved by ranking the activities using total estimated costs and defining a "cut line" for the fiscal year based on the summation (in priority order) of the estimated fiscal year expenditures.

The approach described above can not include all considerations necessary to complete prioritizing of the transition activities. The prioritizing method proposed includes three areas for "adjusting" the raw calculated priorities. These adjustments are:

- "must do" activities: surveillance and maintenance activities required for safe and legal operations
- logical precedence activities: activities that logically precede other related activities; for example, a planning activity must precede the execution of the activity planned
- management issues:
 - √ consideration of resource leveling, utilization of unique skills and accommodation of programmatic and/or policy revisions
 - √ deferral of transition activities for facilities that remain in production.

Computer spreadsheets in Microsoft® Excel have been developed to assist in this prioritizing method by performing calculations, sorting (ranking) activities and printing the results. The spreadsheets are discussed in detail in Appendices B, C, and E.

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IV. Attributes

The first and perhaps most important step in developing a prioritization process is choosing and grouping attributes to encompass the many diverse organizational objectives or missions. Ideally, the number of attributes chosen would be seven or less, recognizing human short term memory limitations when the process relies primarily on subjective scoring of activities. Six general attributes have been chosen for prioritizing transition activities. Each of these attributes may be considered a collection of lesser but related attributes. The general attributes are:

- **personnel safety**: public and personnel safety (OSHA), minimizing radiation exposure (ALARA), and habitability
(currently a relative weight of 20 is assigned)
- **environmental regulation**: activity required to meet mandatory prescriptive regulations and/or laws
(currently a relative weight of 9 is assigned)
- **environmental stewardship**: best management practices for minimizing environmental releases
(currently a relative weight of 5 is assigned)
- **public perception**: enhance public perception of DOE (& WSRC) stewardship
(currently a relative weight of 5 is assigned)
- **other requirements**: other DOE, DOT, etc. requirements not covered above

(currently a relative weight of 3 is assigned)

- **cost effectiveness**: relative costs involved if the activity is not pursued or delayed.

(currently a relative weight of 3 is assigned)

The attributes and the attribute weight factors above were selected in June 1993 by an ad-hoc committee of SWER/TDD and EPD personnel, and have been reviewed by the SRS Transition Committee. Evaluations of the prioritization process may dictate revisions of these attributes and/or weight factors.

The sensitivity of the attribute weight factors was evaluated by calculating priorities on 199 activities with each weight factor doubled and halved. The maximum shift in priority number with the various weight factors was on the order of 25%, while the average shift in priority number was on the order of $\pm 8\%$. The details of this evaluation are discussed in Appendix D.

The DOE-EM organization has a preliminary prioritization method for Decontamination and Decommissioning (D&D) of facilities nationwide (Reference 4). The proposed SRS transition prioritization method has many similarities and some differences from the DOE-EM method. Figure 1 compares the similarities and differences. With respect to attribute relative weights, the similarities are obvious; while the differences in missions are reflected in attribute selection. Considering the differences in missions, the proposed

Comparison of EM D&D Attributes vs. SRS Transition Attributes

Org.	Norm. Wt.	Score Range	Attribute Title	Attribute Description
EM	36.0	1 -> 7	Health Risk	Reduce Health Risk
SRS	43.5	0 -> 6	Personnel Safety	Personnel Safety (OSHA), ALARA, Habitability
EM	32.0	1 -> 7	Uncertainty Reduction	Reduce Uncertainty in Risks & Costs
SRS	0.0	---	---	---
EM	13.0	1 -> 7	Environmental Risk	Reduce Environmental Risk
SRS	10.9	0 -> 6	Environmental Stewardship	Best management practices for minimizing environmental releases
EM	9.5	1 -> 7	Socioeconomic Impact	Avoid Adverse Socioeconomic Impacts
SRS	10.9	0 -> 6	Public Perception	Enhance public perception of DOE (& WSRC) stewardship
EM	9.5	1 -> 7	Regulatory Compliance	Respond to Regulatory Requirements
SRS	21.7	0 -> 6	Environmental Regulation	Activity required to meet mandatory prescriptive regulations, laws
EM	0.0	0,1 \$\$	Other: Risk Urgency/Timing Remaining & Future Costs	Avoid Unnecessary Economic Costs
SRS	6.5	0 -> 6	Cost Effectiveness	Relative costs involved if the activity is not pursued or delayed
EM	0.0	---	-----	-----
SRS	6.5	0 -> 6	Other Requirements	Other DOE, DOT, etc. requirements not covered above

Figure 1

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SRS method is sufficiently consistent with the general approach used by DOE-EM; thus, priorities developed for the transition SRS facilities are not inconsistent with the overall DOE-EM structure.

V. Transition Activity Scoring

Each transition activity is "scored" on six selected attributes using the tables in Appendix A.

High "precision" is not normally required in the scoring process except to obtain consensus on activities near the "cut line". The "cut line" represents the funding constraints (normally for a fiscal year). Activities well above the "cut line" would not normally fall below the "cut line" even if more scoring precision was used. Likewise, activities well below the "cut line" would not normally move above the "cut line" if more precision were used in the calculated scoring. This key feature permits a minimal level of staff support to maintain and update/revise the prioritization process. In most cases, engineering judgment by knowledgeable process people will be adequate for the scoring.

VI. Cost Estimate Factors

A philosophical argument may be made that if the attribute ranking truly represents the objectives of the organization, costs should not influence the priority structure. In other words, "if it's *important*, do it regardless of the cost." In reality, a lot of *important* activities are deferred or even skipped because of real world constraints of time and resources. Recognizing this, the costs of activities will eventually play a part in when (or if) the activity is completed.

Therefore, the prioritization method developed for transition activities contains a linking to the activity cost. The linking to the estimated activity costs is made by first making two "adjustments" to costs before the cost data are used in a cost-benefit ratio calculation. The resulting calculation is thus termed a *modified* cost-benefit ratio. The two "adjustments" are:

The First Cost Adjustment:

The first adjustment is intended to normalize cost estimates that may vary in preparation method. The reliability of any cost estimate depends on the amount of experience in similar efforts and on the amount of "design" associated with the estimate. The concept of using the estimated costs to calculate the cost-benefit ratio for prioritizing activities is limited in precision to the quality of the cost estimates. The prioritizing method developed for transition activities uses a cost estimate category code to flag the quality of the estimate. The codes currently assigned are shown below.

Code Multiplier Use, application

e	1.0	A well "engineered" estimate
c	2.0	A "conceptual" estimate
h	3.0	A "high spot" (or "quick and dirty") estimate

The multiplier is used to "adjust" the cost estimate in the cost-benefit ratio calculation for an activity. The rationale for using the multiplier is to avoid situations where a low "high spot" estimate results in placing the

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activity high on a priority list that should have been lower if a well engineered estimate had been done to begin with; thus negating or delaying the benefits of the work completed. The multipliers are not used in the calculation of the "cut line".

The Second Cost "Adjustment":

Customary uses of cost-benefit ratio concepts are based on comparing fiscal benefits (e.g. cost savings, profits, etc.) to "project" costs. In these customary uses, the ratio has no dimensions because both the numerator and the denominator of the ratio are in the same units (dollars). The "benefits" derived in the transition prioritization process are somewhat intrinsic and are expressed on a subjective zero-to-six scale not readily convertible to fiscal units.

The second "adjustment" to the transition activity costs used in the cost-benefit ratio calculation is to take the fourth-root of the cost ($\text{Cost}^{1/4}$). The rationale for this "adjustment" recognizes that the "benefit" calculated from the scores assigned in Appendix A do not necessarily correlate to dollars. However, a convenient and accepted basis is available for developing such a correlation for the *Personnel Safety* attribute.

This basis is the criteria established for Significance Categories for reportable Unusual Events (Reference 5). This criteria lists, for event Significance Categories of "A" through "F", the number and type of personnel injuries, the individual and population radiation exposures, and the monetary losses.

The scoring for the *Personnel Safety* attribute in Appendix A is based directly on these criteria. Figures 2A and 2B (taken from Reference 5), illustrate the overall significance of the rating system. Figure 3 contains plots of the Significance Category dollar loss, the individual radiation exposure, and the population radiation exposure values divided by the "score" versus the "score". This plot illustrates the relative consistency between these consequences.

The relative consistency between these event consequences is justification for developing a method of "adjusting" the cost estimates (used in the cost-benefit ratio calculation) to better correlate the costs to the scoring method selected.

As shown in Figure 4, the linear ratio of cost (dollar loss) divided by the "score" is not linearly related to the "score". However, if the fourth-root of the cost is divided by the "score", the ratio is reasonably constant for all "scores" as shown on Figure 4.

Several other "adjustment" methods (such as logarithmic and square-root) were evaluated as well as a range of exponents. The fourth-root gave the best correlation.

Using the *Personnel Safety* attribute as the basis for the correlation is adequate for the prioritization calculations because it has the predominant attribute weight factor.

Figure 2A

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Significance Determination Table

DEFINITIONS	A	B	C	D	E	F	G
ACTUAL	Very Serious Consequences	Serious Consequences	Significant Consequences	Conditionally Significant Consequences	Minor Consequences	Slight Consequences	Low Significance
POTENTIAL	Very Serious Hazard Potential	Serious Hazard Potential	Significant Hazard Potential	Hazard Potential	Significantly Reduced Safety Margin Safety System Degradation	Reduced Safety Margin	Process Efficiency
SAFETY							
I. PERSONNEL SAFETY							
a. Injuries	≥5 Fatalities	Fatality	≥5 LWCs	LWC	≥2 RWC or ≥2 MTC	RWC or MTC	—
b. Workplace Control ALI(e)	20	5	1	0.5	0.1	—	—
c. Chemical Exposure	≥5 Fatalities	Fatality	IDLH(f)	FEL(g)/TLV(h) / STEL(i)/C(j)	—	—	—
II. HEALTH PROTECTION							
1. Occupational Exposure							—
a. Individual Dose, rem(a)	100	25	5	1.0(b)	0.6	0.3(c)	—
b. Extremity, Skin, Organ, rem	1000	250	50(d)	15	5	2.5	—
III. ENVIRONMENT							
1. Environment	—	Significant Offsite Consequences	NOV with Fine Sig. Onsite Consequences	Notice of Deficiency	Permit Exemption	—	—
2. Public Exposure							
a. Individual Dose, rem (a)	1.0	0.5	0.1	0.025	0.01	0.002	—
b. Population Dose, Person-rem	500	100	30	10	2	—	—
c. Thyroid Dose, rem	15	1.5	0.3	0.1	—	—	—
d. Chemical Exposure	Fatality	EEG(k)	—	—	—	—	—
IV. LIMIT							
Nuclear Safety	Event with Fatality	Event	OSR/Tech. Spec. (DOE Auth. Startup)	Other OSR/Tech. Spec. Tech. Std.	NSC	—	—
Other	—	—	OSR (DOE Auth. for Restart)	Other OSR/ Tech. Std.	Significant Operating Limit	—	—

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Figure 2B**Significance Determination Table (Cont'd)**

DEFINITIONS	A	B	C	D	E	F	G
ACTUAL	Very Serious Consequences	Serious Consequences	Significant Consequences	Conditionally Significant Consequences	Minor Consequences	Slight Consequences	Low Significance
POTENTIAL	Very Serious Hazard Potential	Serious Hazard Potential	Significant Hazard Potential	Hazard Potential	Significantly Reduced Safety Margin/Safety System Degradation	Reduced Safety Margin	Process Efficiency
V. EMERGENCY PREPAREDNESS							
1. Failure to respond properly to:	—	General Emergency	Site Emergency	Alert	Unusual Event	—	—
VI. SNM ACCOUNTABILITY							
1. Accountability	—	—	Missing Item	Alarm Limit	—	—	—
NON-SAFETY VII. PRODUCTIVITY/EQUIPMENT							
1. Equip/Inst.Damage	>675 MM	>650 MM	>65 MM	>61 MM	>6250 M	>6100 M	—
2. Downtime/Lost Production	>1 yr.	>6 mo.	>3 mo.	>1 mo.	>2 wks.	>3 days	—
(a) External dose plus Committed Effective Dose Equivalent	(f) Imminent Danger to Life and Health						
(b) External dose greater than SRS goal; or intakes resulting in >100 mrem effective dose equivalent in the first year.	(g) Permissible Exposure Limit						
(c) Tritium bioassay result >20uCi/1	(h) Threshold Limit Value						
(d) Limit for dose to eyes = 15 rem	(i) Short Term Exposure Limit						
(e) Annual Limit of Intake	(j) Ceiling (Concentration)						
	(k) Emergency Exposure Guide						

Checklist for completed reports

When signing a completed report, the facility manager or designee assumes full responsibility for accuracy and assessment of the report and implementation of corrective actions. The following is typical of a checklist or review process that the facility manager should use in determining if the OR should be signed.

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Figure 3

Plots of Event Significance Criteria

Sig. Cat.	Pers. Injuries	Loss \$MM	Rad Exp.		Prl. Score	\$MM+ Score	Indiv+ Score	Pop.*100+ Score
			Indiv	Pop.				
Plot Legend Lables-->						FC	FI	FP
A	>5 Fatilities	75	100	1	6	12.50	16.67	16.67
B	Fatality	50	25	0.5	5	10.00	5.00	10.00
C	> LWC's	5	5	0.1	4	1.25	1.25	2.50
D	LWC	1	1.8	0.025	3	0.33	0.60	0.83
E	RWC	0.25	0.6	0.01	2	0.13	0.30	0.50
F	MTC	0.1	0.3	0.002	1	0.10	0.30	0.20

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Figure 4

Plots of Event Significance Criteria

$m = 0.25$

Scale mult. = 10

Sig Cat	Loss, SMM	Pri. Score	\$MM+ Score = Lin Ratio	$((\$MM)^m + \text{Score}) * \text{mult} = \text{Mod Ratio}$	Mod Ratio Average
A	75	6	12.50	4.90	4.41
B	50	5	10.00	5.32	4.41
C	5	4	1.25	3.74	4.41
D	1	3	0.33	3.33	4.41
E	0.25	2	0.13	3.54	4.41
F	0.1	1	0.10	5.62	4.41

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Significance Category Analysis

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The effect of using the second "adjustment" to the estimated costs is illustrated in Figures 5A and 5B. In this illustration, 10 sample activities were selected for evaluation. In Figure 5A, no second "adjustment" was made (the cost exponent was 1.0). In Figure 5B, the fourth-root of the costs was used. Inspection of the differences between Figures 5A and 5B reveals:

- the priorities calculated in Figure 5B are judged to be considerably more "reasonable" than those in Figure 5A; and
- the priorities calculated in Figure 5B are better aligned with the weighted score (column [14]) than those in Figure 5A. This is expected because the second adjustment significantly desensitizes the cost effects on the cost/benefit ratio.

A sensitivity evaluation of the overall effects of using the fourth-root of the cost ($\text{Cost}^{1/4}$) is discussed in detail in Appendix D. The conclusion of this evaluation is that using the *modified* cost-benefit ratio calculation that takes the fourth root of the cost is essentially equivalent to the *simple* cost-benefit ratio calculation if the criteria for successful prioritization is to attain the maximum total benefit from available funds.

Using the *modified* cost-benefit ratio calculation that takes the fourth root of the cost has no known precedent in prioritization methods. The fourth root of the cost that "fits" the combination of the event reporting criteria for SRS and the most significant transition prioritization attribute probably may not be applicable to prioritization of activities different from transition.

VII. Priority Development

The detailed routine steps for developing the prioritization of transition activities are outlined in Appendix B. In summary, these steps, as illustrated in Figure 6, are:

- 1) enter in a "Transition Planning" spreadsheet:
 - a. the Activity Data Sheet (ADS) activity titles and cost estimates for the current fiscal year and the five year forecast;
 - b. the activity identification numbers
 - c. the activity cost estimate "quality factor" flag;
 - d. the activity attribute scores using Appendix A; and
 - e. any applicable precedence designations
- 2) copy activity data for the selected fiscal year and total cost data to the "priority development" spreadsheet
- 3) sort the "Transition Priority Development" spreadsheet based on total costs for the cost-benefit ratio (CBR)
- 4) substitute the selected fiscal year costs, and calculate a "cut line" based on expected fiscal year fund limitations
- 5) review the calculated priorities and revise/repeat steps 1) through 4) above until consensus is attained
- 6) publish the prioritization report as outlined in Appendix C.

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Transition Activity Priority Development

Figure 5A

[Sorted by the [Cost + Benefit Ratio] Column]
 Priority List Based on Total Cost Estimates; Zero Total Cost Activities Excluded

Cost Exponent for CBR = 1.00

[1]	[2]	[3]	[4]	[5]	[6]	<- Column No. ->	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
Inter. Prt.	In ADS	Driver Code	Trans ID	Area	Transition Activity:	Precedence	Attribute Relative Weight (see Appendix A) -->						Wid. Score	Total Cost Est.		Cost + Benefit Ratio	Σ Cost (\$M)	
							Activity Scoring							Code	(\$M)			
							PSafe	Reqs	Stwd	P/R	Other	C.Eff						
1			Sample 4	G Area	L Hotshop Decontamination & Dismantlement		2	2	1	1	0	0	68	h	1.000	44.1	1.000	
2			Sample 9	D Area	Asbestos Containment & Removal		2	3	2	2	0	1	90	h	3.352	111.7	4.352	
3			Sample 10	D Area	Flare Tower Removal		2	3	2	2	0	1	90	h	3.352	111.7	7.704	
4			Sample 3	232-F	Decontamination & Dismantlement		4	1	3	3	0	1	122	h	8.500	209.0	16.204	
5			Sample 1	773-A	SED Decontamination & Dismantlement		5	1	3	3	2	0	145	c	16.700	230.3	32.904	
6			Sample 7	100 Areas	Cd Rod Disposal		4	5	3	3	0	3	164	h	31.466	575.6	64.370	
7			Sample 8	UC3	Repackage & Storage		2	0	3	2	2	2	77	h	26.200	1020.8	90.570	
8			Sample 5	105-R	Achieve SAFSTOR		1	1	3	3	1	0	62	h	76.674	3710.0	167.244	
9			Sample 2	B Area	HWCTR Decontamination & Dismantlement		1	1	2	3	0	0	54	h	100.000	5555.6	267.244	
10			Sample 6	105-R	R Reactor Decontamination & Dismantlement	Sample 5	1	2	3	3	0	0	68	h	200.000	8823.5	467.244	

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Transition Activity Priority Development

Figure 5B

[Sorted by the [Cost + Benefit Ratio] Column]
 Priority List Based on Total Cost Estimates; Zero Total Cost Activities Excluded

Cost Exponent for CBR = 0.25

[1]	[2]	[3]	[4]	[5]	[6]	<- Column No.->	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
Inter. Prt.	In ADS	Driver Code	Trans ID	Area	Transition Activity:	Precedence	Attribute Relative Weight (see Appendix A) -->						Wtd. Score	Total Cost Est.		Cost + Benefit Ratio	Σ Cost (\$M)	
							Activity Scoring							Code	(\$M)			
							PSafe	Reqs	Stwd	P/R	Other	C.Eff						
1			Sample 1	773-A	SED Decontamination & Dismantlement		5	1	3	3	2	0	145	c	16.700	16.6	16.700	
2			Sample 3	232-F	Decontamination & Dismantlement		4	1	3	3	0	1	122	h	8.500	18.4	25.200	
3			Sample 7	100 Areas	Cd Rod Disposal		4	5	3	3	0	3	164	h	31.466	19.0	58.666	
4			Sample 4	G Area	L Hotshop Decontamination & Dismantlement		2	2	1	1	0	0	68	h	1.000	19.4	57.666	
5			Sample 9	D Area	Asbestos Containment & Removal		2	3	2	2	0	1	90	h	3.352	19.6	61.018	
6			Sample 10	D Area	Flare Tower Removal		2	3	2	2	0	1	90	h	3.352	19.8	64.370	
7			Sample 8	UC3	Repackage & Storage		2	0	3	2	2	2	77	h	26.200	38.7	90.570	
8			Sample 5	105-R	Achieve SAFSTOR		1	1	3	3	1	0	62	h	76.674	62.8	167.244	
9			Sample 6	105-R	R Reactor Decontamination & Dismantlement	Sample 5	1	2	3	3	0	0	68	h	200.000	72.8	367.244	
10			Sample 2	B Area	HWCTR Decontamination & Dismantlement		1	1	2	3	0	0	54	h	100.000	77.1	467.244	

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Figures 5A and 5B

Simplified SRS Transition Activity Prioritization

Figure 6

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VIII. Responsibilities for SRS Transition Priority Development

The recommended overall responsibility for development of SRS transition priorities should be the responsibility of the SWER/TDD department with specific support from other SRS departments as follows:

- The SRS Transition Committee should review and recommended approval of the "final" prioritization results
- A subcommittee of the SRS Transition Committee (to be named) should have responsibility for developing (and reviewing with the members' parent organization) the estimated activity costs and the assigned activity scores
- The Environmental Protection Department (through the SRS Transition Committee) should review the prioritization process for consistency with current environmental laws and regulations
- The SWER budget group should provide information relative to Activity Data Sheet requirements and numbering.
- The SWER/TDD department should be responsible for:

- Δ obtaining WSRC management and DOE concurrence and consensus on the overall prioritization process

- Δ maintaining and executing the programs (spreadsheets) for developing the prioritization

- Δ reviewing preliminary results with management and DOE to better assure consensus on the final result

- Δ approving the assignment of or actually assigning the "Must Do", "Defer" and "Assign" categories

- Δ issuing the prioritization report, and

- Δ maintaining records of input to the prioritization process and correspondence related to the process.

IX. Sensitivity Analysis

Evaluating the sensitivity of attribute weights and activity scoring to the relative priorities assigned are discussed in Appendix D. In general, the quality of the cost estimates are (as would be expected) the primary limitation on the "accuracy" of the prioritization method. The attribute weights and activity scoring have less impact on the priority. For example, when the attribute weight for an attribute is doubled and then halved, the average shift in activities is on the order of only 8% and the maximum shift is on the order of only 25%.

X. Programs for Further Development

The process for determining transition priorities described above contains several areas for potential enhancement and/or further development. Decisions relative to further

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development should be based on use and evaluation of the process developed to date. Several areas of potential development are:

- revised format and column arrangements in the spreadsheets; these enhancements are expected to be straight forward and to accompany normal use
- conversion from "spreadsheet" to "database" type programming. The spreadsheet method has been very beneficial during concept development but lacks some of the speed and "user friendly" features available in database (for example (dBase in IBM or FileMaker in Macintosh) programming.
- development of more rigorous methods for selecting the attributes, attribute relative weights and the process of scoring activities. More rigorous methods for this have been developed for the various "Issue Management" systems on site. The decision on what, if any enhancements are justified in this area should be based primarily in the difficulty in developing consensus on the process described above.
- evaluating alternate scoring techniques such as those used by the CAMP system (reference 2).

XI. References

1. Reactor Safety Improvement Program (RSIP) Work Planning Process, Manual RD-1, Procedure RDP 11.01, May 1, 1991.
2. DOE Order 4320.2, Capital Asset Management Process (CAMP), (Chapter 4), March 13, 1992.
3. United Energy Services Corp., Issues Management Process: Purpose and Methodology, July, 1993 (Process used by WSRC NMPD Issue Management).
4. Office of Environmental Restoration, United States Department of Energy, Preliminary Design Report: A Formal Priority System for Environmental Restoration, April 1991.
5. Site Item Reportability and Issues Management (SIRIM Handbook), Revision 1, WSRC-RP-93-75, July 26, 1993.

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XII. Glossary

Acronym or term

Definition

Activity	A planned effort related to the transition process at SRS
ADS	Activity Data Sheets
Attribute	A succinct description of a primary organizational responsibility
Attribute Weight	A numerical relative weight of an attribute relative to other assigned attributes
CBR	Cost-Benefit Ratio. The ratio of the "adjusted" cost of a transition activity to the calculated "benefit" of completing the activity.
DOE	Department of Energy
DP	Defense Programs Office within DOE (HQ)
EM	Environmental Restoration and Waste Management Office within DOE
EPD	Environmental Protection Department of WSRC
NMPD	Nuclear Materials Processing Division of WSRC
SRS	Savannah River Site
SWER	Solid Waste and Environmental Restoration Division of WSRC
TDD	Transition, Decontamination and Decommissioning Department (of the SWER Division) of WSRC
Transition	The generic term for the process of DOE-EM assuming responsibility for SRS facilities from DOE-DP.
Transition Committee	A committee comprised of representatives from affected WSRC departments with the mission of coordinating the overall transition process for WSRC
WSRC	Westinghouse Savannah River Company

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APPENDIX A

Transition Activity Scoring

Each transition activity listed in the "Transition Planning Worksheet" spreadsheet is normally scored for each attribute using the scoring convention illustrated in tables A-1 through A-6. The scores are entered on the odd numbered pages in the "Transition Planning Worksheet" spreadsheet. The Remarks column on the spreadsheet may be used to explain the scoring as needed. Scores may be entered directly into the "Transition Activity Priority Development" spreadsheet for "rapid evaluations"; however, the correlation with the Remarks column may be lost and printout inconsistencies may result.

Scores should be entered as whole numerical digits (0 -> 6) rather than fractions because in most cases, the scores are primarily subjective evaluations. Entering scores as multiple digits or as decimal values may imply more precision than exists and ultimately degrade the credibility of the process. Exceptions to this "rule" may be needed to obtain consensus at the "cut line". Earlier trial runs with the process demonstrated that four digits (0->3) were not enough.

The selection of seven digits (0 -> 6)

is judged to be sufficient for most activities.

Some attributes for an activity may involve "multiple" scores. For example, physically completing an activity may reduce the risk (the "Personnel Safety" attribute) to off-site population (a positive score) but increase the risk to site employees (a negative score). In this case, the net score would be the numerical sum of the two scores (but not less than zero).

The selection of the attributes is based on the assumption that completing planned activities will afford a positive

contribution toward the overall SRS objectives. To this end, negative net scores are not compatible with the cost-benefit calculations. In fact, if all scores for an activity were zero, the weighted score (benefit) would be zero, causing the cost-benefit ratio to approach infinity, thus dropping "off the bottom" of the priority list.

If the "need" for negative net scores is identified during development of inputs to this prioritization process, either an inappropriate activity is listed, or the attribute selections and/or scoring criteria requires revision.

DRAFT**TABLE A-1****Scoring for the Attribute of "Personnel Safety"****Expected Condition or Situation**

Industrial Injuries / Fatalities	Occupational Exposure		Radiation Exposure			Chem. Injury	Score (i)
	Individual rem (a)	Extremity rem (b)	Individual rem (c)	Popul rem (d)	Thyroid rem		
>5 Fatal.	100	10000	1.0	500	15	Fatality	6
Fatality	25	250	0.5	100	1.5	EEG ^(h)	5
>5 LWC	5	50 ^(g)	0.1	50	0.3	----	4
LWC	1.8 ^(e)	15	0.025	10	0.1	----	3
RWC	0.6	5	0.01	2	----	----	2
MTC	0.3 ^(f)	2.5	0.002	----	----	----	1
----	----	----	----	----	----	----	0

Notes:

- (a) External dose plus Committed Effective Dose Equivalent
- (b) Including skin & organ
- (c) External dose plus Committed Effective Dose Equivalent
- (d) Population dose, person-rem
- (e) Or intakes resulting in greater than 100 mrem dose equivalent in the first year
- (f) Tritium bioassay greater than 20 $\mu\text{Ci/l}$
- (g) Limit for dose to eyes = 15 rem
- (h) Emergency Exposure Guide
- (i) Partial score is positive if completing the activity is expected to avert the condition. Partial score is negative if condition is expected to result because of completing the activity. The net score is the sum of the partial scores but not less than zero. The score assigned should reflect the expected avoidance of conditions by completion of the transition activity being scored.

General Note: Scores are based on "best engineering judgment" of process knowledgeable people. If specific analysis is available (e.g., PRA), this should prevail.

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TABLE A-2

Scoring for the Attribute of "Environmental Regulation"

<u>Expected Condition or Situation</u>	<u>Score(a)</u>
High probability of fine for non- compliance with a statutory limit, court order or consent agreement related to environmental releases or mitigation.	6
Probability of Notice of Violation-NOV (fine unlikely) for non-compliance with a statutory limit, court order or consent agreement related to environmental releases or mitigation.	5
Probability of non- compliance with a negotiable environmental consent agreement.	4
Probability of an environmental Notice of Discrepancy	2
Probability of an environmental permit exception	1
Negligible probability of any environmental regulatory, statutory, or consent order/agreement difficulty	0

Note:

- (a) Partial score is positive if completing the activity is expected to avert the condition. Partial score is negative if condition is expected to result if the activity is completed. The net score is the sum of the partial scores but not less than zero.

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TABLE A-3

Scoring for the Attribute of "Environmental Stewardship"

<u>Expected Condition or Situation</u>	<u>Score^(a)</u>
High probability of a highly publicized radiological environmental release not specifically limited by regulations is avoided.	6
High probability of a highly publicized hazardous material environmental release not specifically limited by regulations is avoided.	5
Moderate probability of a publicized radiological or hazardous material environmental release not specifically limited by regulations is avoided.	4
Slight probability of a publicized radiological or hazardous material environmental release not specifically limited by regulations is avoided.	2
Negligible probability of a publicized radiological or hazardous material environmental release..	0

Note:

- (a) Partial score is positive if completing the activity is expected to avert the condition. Partial score is negative if condition is expected to result if the activity is completed. The net score is the sum of the partial scores but not less than zero.

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TABLE A-4

Scoring for the Attribute of "Public Perception"

<u>Expected Condition or Situation</u>	<u>Score^(a)</u>
Will significantly enhance the public perception of the safety, environmental and fiscal stewardship of the DOE and WSRC, or will have a significant socioeconomic benefit for the surrounding communities.	6
Will moderately enhance the public perception of the safety, environmental and fiscal stewardship of the DOE and WSRC, or will have a moderate socioeconomic benefit for the surrounding communities.	4
Will slightly enhance the public perception of the safety, environmental and fiscal stewardship of the DOE and WSRC, or will have a slight socioeconomic benefit for the surrounding communities.	2
Will negligible public perception benefit or socioeconomic benefit.	0

Note:

- (a) Partial score is positive if completing the activity is expected to avert the condition. Partial score is negative if condition is expected to result if the activity is completed. The net score is the sum of the partial scores but not less than zero. Socioeconomic impacts associated with changing SRS missions are not applicable to this attribute.

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TABLE A-5

Scoring for the Attribute of "Other Requirements"

<u>Expected Condition or Situation</u>	<u>Score(a)</u>
Definitely required to fulfill a <i>non-environmental</i> federal, state or county <u>statutory</u> requirement.	6
Definitely required to fulfill a non-environmental DOE order or directive, another governmental (e.g. DOT) requirement, or a <i>non-environmental</i> federal, state or county regulatory requirement.	4
May(b) be required to fulfill a <i>non-environmental</i> DOE order or directive, another governmental (e.g. DOT) requirement, or a <i>non-environmental</i> federal, state or county regulatory requirement.	2
Not required to fulfill a non-environmental DOE order or directive, another governmental (e.g. DOT) requirement, or a non-environmental federal, state or county regulatory requirement.	0

Notes:

- (a) Partial score is positive if completing the activity is expected to avert the condition. Partial score is negative if condition is expected to result if the activity is completed. The net score is the sum of the partial scores but not less than zero.
- (b) Requirements uncertain because detailed characterizations have not been completed or all design options have not been evaluated.

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TABLE A-6

Scoring for the Attribute of "Cost Effectiveness"

<u>Expected Condition or Situation</u>	<u>Score^(a)</u>
Completing the activity early will afford very significant cost savings (100%) because of the availability of operable equipment and/or critical skills. Completing the activity early will very significantly reduce the long term costs associated with completing other required activities.	6
Completing the activity early will afford significant cost savings (50%) because of the availability of operable equipment and/or critical skills. Completing the activity early will significantly reduce the long term costs associated with completing other required activities.	5
Completing the activity early will afford moderate cost savings (20%) because of the availability of operable equipment and/or critical skills. Completing the activity early will moderately reduce the long term costs associated with completing other required activities.	4
Completing the activity early will afford some cost savings (5%) because of the availability of operable equipment and/or critical skills. Completing the activity early will somewhat reduce the long term costs associated with completing other required activities.	3
Completing the activity early will afford negligible cost savings (<1%) because of the availability of operable equipment and/or critical skills. Completing the activity early will negligibly reduce the long term costs associated with completing other required activities.	2
No cost benefits are associated with the timing of this activity.	0

Note:

- (a) Partial score is positive if completing the activity is expected to avert the condition. Partial score is negative if condition is expected to result if the activity is completed. The net score is the sum of the partial scores but not less than zero.

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APPENDIX B

Prioritizing Steps

Development of priorities for transition activities described in this section is expected to be iterative in that several "passes" are expected before consensus is attained. Figure B-1 illustrates the steps to be followed.

Three Excel® spreadsheets (along with a program macro) are currently used in the priority development. These three spreadsheets are discussed below.

"Transition Planning Worksheet" Spreadsheet

The first spreadsheet, entitled "Transition Planning Worksheet" (see sample in Figure B-2), is arranged by SRS organizations and includes applicable current five-year budget forecast information. This spreadsheet serves as the primary "input" vehicle for the prioritization. The spreadsheet is printed as two pages for each set (or grouping) of activities. Specific data entered in this spreadsheet are:

Odd Numbered Pages:

- The four digit Activity Data Sheet (ADS) identification number for the (DOE assigned) cost category.

Notes:

- 1) the macro program (on demand) assigns ADS sub-identifier numbers as decimal subsets to the DOE assigned ADS number. For example, the identification number: 6900.001 contains the

DOE assigned "6900" and the macro assigned ".001".;

- 2) activities not included in the current five-year forecast may also be included. These are flagged with "N" in the column entitled "In ADS".

- the site area and the individual activity descriptions/titles within the ADS identification number.
- a "driver" code (specified by DOE). (The currently defined "driver" codes are listed in Table B-1.) *A succinct description of the appropriate legal or regulatory "driver(s)" may be included in the Remarks column on the even numbered pages.*
- a category identifier for the "quality" of the cost estimate. The currently defined categories are listed in Section VI.
- The current estimates of costs for the next fiscal year and the five years covered by the five year forecast. The spreadsheet calculates the six year total column.

Even Numbered Pages:

- A precedence identification for a listed activity if one of the following applies:
 - √ another activity must logically precede this activity: In this case, the precedence identification is the ADS number (with decimal points) of the activity that must be completed first

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Table B1

Activity "Driver" Definitions
from the Department of Energy

Driver Code	<u>DRIVER DESCRIPTION</u>	<u>Legal, ES&H, or Other</u>
A	Required by a compliance agreement	Legal
B	Required by a court order or consent decree	Legal
C	Required by federal statute or regulation (Including permits in place)	Legal
D	Required by state or local statute, or regulation (Including permits in place)	Legal
E	Required by DOE order-environment, safety and health	ES&H
F	Required by DOE order-management and other	Other
G	Required by Agreements-in-Principle or Agreements with Indian Nations	Other
H	Required to meet a proposed compliance agreement (in negotiation, but not yet signed)	Legal
I	Other essential management functions	Other

-27-

7/9/93

Trans. ADS's

- 10 -

7/9/93

Trans. ADS's

- 20 -

Figure B-3

Input Data Sheet for Transition Prioritization

Activity ID Driver Code Revision No. Rev. Date

Precedence In ADS ?

Area Title

Cost Estimate Data

Fiscal Year Reference		Current	Plus 1	Plus 2	Plus 3	Plus 4	Plus 5	Est*
Fiscal Year (FY)		94	95	96	97	98	99	Code
Planning	Old -->	0	0	0	0	2,400	2,400	h
Estimate (K\$)	New -->							

* Use "e", "c", or "h"

Attribute Scoring

		Personnel Safety	Environmental Regulations	Environmental Stewardship	Public Perception	Other Requirements	Cost Effectiveness
Attribute Scores	Old -->	2	2	1	1	2	1
	New -->						
Remarks }							
on }							
Attribute }							
Scores }							

Additional Remarks

Prepared By _____ Date _____ Approved By _____ Date _____

Note: This figure is intended to illustrate the format and content of the spreadsheet. Actual data entered was generated during the development of the prioritization process and should not be mistaken for recommended prioritization.

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✓ the words "Must Do" if the completing activity is not discretionary (for example: surveillance and maintenance activities or maintaining regulatory permits)

✓ the word "Defer" if the activity should be scheduled later than the fiscal year funding indicates (typically, activities for transition of facilities still performing a DP function would be deferred.)

- The assigned "score" for each attribute as it is applicable to the activity. The attributes are discussed in section V. The activity scoring is outlined in Appendix A.
- Any remarks or comments judged appropriate and applicable to the prioritization process.

Information in the Transition Planning Worksheet is expected to be supplied primarily by the WSRC operating divisions/departments responsible for execution of the transition activities. Figure B-3 is a proposed data sheet for developing, and recording and transmitting the activity cost, scoring, and precedence data. The envisioned procedure would involve transcribing Figure B-3 data into the "Transition Planning Worksheet" spreadsheet.

Transition Activity Priority Development" Spreadsheet

The second spreadsheet, entitled "Transition Activity Priority Development" (see sample as Figure B-4) contains the equations and calculation results of the prioritization process.

The columns in the heading are numbered for the discussion below:

Column [1]

This column contains the calculated *interim* priority number for the transition activity. If spreadsheet sort options that sort using columns [14] or [17] were last used, the priority numbers in this column will be in numerical order.

Columns [2] through [13]

These columns are copied directly from the Transition Planning Worksheet (a macro program option is available for the copying)

Column [14]

This column contains the calculated weighted score for the activity. The weighted score =
Column [8] score X Attribute Rel. Wt. for Column [8]
+ Column [9] score X Attribute Rel. Wt. for Column [9]
+ Column [10] score X Attribute Rel. Wt. for Column [10]
+ Column [11] score X Attribute Rel. Wt. for Column [11]
+ Column [12] score X Attribute Rel. Wt. for Column [12]
+ Column [13] score X Attribute Rel. Wt. for Column [13]

Note: Currently, a spare column (suppressed in attachment B-2) is available for possible future development of the transition prioritizing process.

Figure B-4

Transition Activity Priority Development

Appendix C

(Sorted by the [Cost + Benefit Ratio] Column)
Priority List Based on Total Cost Estimates; Zero Total Cost Activities Excluded

Cost Exponent for CBR 0.25																						
[1]	[2]	[3]	[4]	[5]	[6]	← Column No. →		[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]			
Inter. Prt.	In ADS	Driver Code	Trans ID	Area	Transition Activity:	Precedence	Attribute Relative Weight (see Appendix A) →						Activity Scoring					Wtd. Score	Total Cost Est.		Cost + Benefit Ratio	Σ Cost (\$M)
							P&S	Rgs	Stwd	P/W	Other	C&H	Code	\$M								
1	M	N	F	6901.011	184-C	Surveillance & Maintenance	Must Do	2	2	1	1	2	1	77	h	0.021	5.9	0.02				
2	M	N	F	6904.051	284-F	Surveillance & Maintenance	Must Do	2	2	1	1	2	1	77	h	0.021	5.9	0.04				
3	M		F	6906.001	G-Area	General Maintenance	Must Do	1	1	2	1	1	2	93	h	0.112	13.0	0.15				
4	M		D	6903.004	D-Area	Maintain Regulatory Permits	Must Do	1	2	1	1	0.5	2	86	h	1.677	24.4	1.83				
5	M		F	6902.008	100-R	Maintenance of Facility Systems for Safety, Habitability & S&M Ac	Must Do	1	1	1	1	1	0.5	44	h	4.536	39.9	6.37				
6	M		F	6907.009	100-P	Maintenance of Facility Systems for Safety, Habitability & S&M Ac	Must Do	1	1	1	1	1	0.5	44	h	7.936	45.9	14.30				
7	M		F	6901.009	100-C	Maintenance of Facility Systems for Safety, Habitability & S&M Ac	Must Do	1	1	1	1	1	0.5	44	h	7.951	45.9	22.25				
8	M		F	6905.009	100-L	Maintenance of Facility Systems for Safety, Habitability & S&M Ac	Must Do	1	1	1	1	1	0.5	44	h	8.220	46.3	30.47				
9		N	F	6901.012	184-C	Transition Planning		2	3	2	2	3	3	105	h	0.050	5.4	30.52				
10		N	F	6904.052	284-F	Transition Planning		2	3	2	2	3	3	105	h	0.050	5.4	30.57				
11			E	6904.074	232-F	Update Safety Documentation		3	2	2	2	3	2	113	h	0.100	5.9	30.67				
12	P		F	6904.084	232-F	Transition Plan		2	3	2	2	3	3	105	h	0.200	7.6	30.87				
13			F	6904.080	232-F	D&D Planning with Supporting Engineering Studies	6904.084	2	2	3	2	3	3	101	h	0.100	6.6	30.97				
14			F	6904.033	300-M	Transition Plan		2	3	2	2	3	3	105	h	0.200	7.6	31.17				
15			F	6904.100	235-F	Transition Plan		2	3	2	2	3	3	105	h	0.200	7.6	31.37				
16			F	6904.116	HB-Line	Transition Plan		2	3	2	2	3	3	105	h	0.200	7.6	31.57				
17			F	6904.132	H-Canyon	Transition Plan		2	3	2	2	3	3	105	h	0.200	7.6	31.77				
18	P	N	F	6904.018	UC3	Transition Plan		2	2	1	1	1	1	74	h	0.100	9.0	31.87				
19	P		F	6904.004	UC3	Document Facility Conditions & Baseline Operating & Maintenance	6904.018	2	2	1	1	2	1	77	h	0.300	11.4	32.17				
20			F	6904.011	UC3	Structural Studies	6904.004	2	2	2	2	2	1	67	h	0.100	7.7	32.27				
21	P		C	6904.001	UC3	NEPA Studies Relative to UC3 storage		1	2	1	1	3	2	63	h	0.700	17.3	32.97				
22			E	6904.007	UC3	Evaluate Status of Safety Documentation	6904.001	3	2	2	2	3	2	113	h	0.300	7.8	33.27				
23			E	6904.073	232-F	Evaluate Status of Safety Documentation		3	2	2	2	3	2	113	h	0.400	8.4	33.67				
24			C	6904.006	UC3	Facility Content Inventory	6904.018	2	2	1	1	2	1	77	h	0.100	8.7	33.77				
25			F	6904.010	UC3	Develop Plan for Maintenance Activities Necessary for Safety	6904.004	2	2	1	1	2	1	77	h	0.100	8.7	33.87				
26			F	6904.049	F-Canyon	Transition Plan		2	3	2	2	3	3	105	h	0.400	9.0	34.27				
27			F	6904.068	F-B-Line	Transition Plan		2	3	2	2	3	3	105	h	0.400	9.0	34.67				
28			F	6904.078	232-F	Develop Training Plan	6904.084	2	2	2	2	2	1	87	h	0.200	9.1	34.87				
29			E	6904.008	UC3	Update Safety Documentation	6904.001	3	2	2	2	3	2	113	h	0.900	10.3	35.77				
30			F	6904.070	232-F	Document Facility Conditions & Baseline Operating & Maintenance	6904.084	2	2	1	1	2	1	77	h	0.200	10.3	35.97				
31			C	6904.071	232-F	Characterization Plan Development	6904.084	2	2	1	1	2	1	77	h	0.200	10.3	36.17				
32			C	6904.072	232-F	Facility Content Inventory	6904.084	2	2	1	1	2	1	77	h	0.200	10.3	36.37				
33			F	6904.012	UC3	Develop Training Plan	6904.018	2	2	2	1	1	1	78	h	0.300	11.1	36.67				
34			F	6904.079	232-F	Training of Personnel	6904.078	2	1	3	3	2	1	88	h	0.600	11.9	37.27				
35			E	6904.105	HB-Line	Evaluate Status of Safety Documentation		3	2	2	2	3	2	113	h	1.700	12.0	38.97				
36			E	6904.121	H-Canyon	Evaluate Status of Safety Documentation		3	2	2	2	3	2	113	h	1.900	12.4	40.87				
37	P		C	6904.002	UC3	Sampling/Characterization of UC3 Inventory		2	2	1	1	2	1	77	h	1.100	15.8	41.97				
38			F	6904.003	UC3	Develop Repackage/Certification Program for UC3	6904.002	3	2	2	1	2	1	102	h	1.300	12.4	43.27				
39			E	6904.022	300-M	Evaluate Status of Safety Documentation		3	2	2	2	3	2	113	h	2.000	12.5	45.27				
40			E	6904.122	H-Canyon	Update Safety Documentation		3	2	2	2	3	2	113	h	2.000	12.5	47.27				
41			E	6904.023	300-M	Update Safety Documentation		3	2	2	2	3	2	113	h	2.000	12.5	49.27				
42			E	6904.089	235-F	Evaluate Status of Safety Documentation		3	2	2	2	3	2	113	h	2.100	12.7	51.37				
43			C	6904.075	232-F	Develop NEPA Compliance Plan		1	3	2	2	3	2	82	h	0.600	12.8	51.97				
44	P		F	6904.086	235-F	Document Facility Conditions & Baseline Operating & Maintenance	6904.100	2	2	1	1	2	1	77	h	2.800	20.0	54.77				
45			F	6904.092	235-F	Develop Plan for Maintenance Activities Necessary for Safety	6904.086	2	2	1	1	2	1	77	h	0.500	13.0	55.27				

Note: This figure is intended to illustrate the format and content of the spreadsheet. Actual data entered was generated during the development of the prioritization process and should not be mistaken for recommended prioritization.

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Column [15]

This column is copied directly from the "Transition Planning Worksheet".

Column [16]

This column is copied from the "Transition Planning Worksheet". The data in column [16] is either the total costs or the cost for a specified fiscal year. The selection of which costs to use in column [16] is based on whether or not the column [16] heading is blank or a two-digit fiscal year is used. If the column [16] heading is blank, the word "Total" appears as a spill-over from the preceding spreadsheet column.

Column [17]

This column is the "cost-benefit ratio" (CBR) and is calculated as: {Column [16] X (the cost code multiplier)}^{0.25} + column [14]
Note: The CBR value printed in this column has been scaled by the number 1000 to permit printing as whole numbers.

Algebraically, the data on column [17] may be expressed as:

$$CBR = \frac{(C_a \cdot m_a)^{Exp}}{\sum_{b=1}^{b=6} (S_{ab} \cdot W_b)} \times Scale$$

Where:

C_a = Cost estimate for the activity "a"

m_a = Cost estimate quality multiplier for the activity "a" (the 1st "adjustment")

Exp = Cost estimate exponent for the activity (the 2nd "adjustment"). (*Exp is currently set to be 0.25 for all activities*)

S_{ab} = Score for the activity "a" for attribute "b"

W_b = Attribute relative weight for attribute "b"

$Scale$ = Scale factor (for printout esthetics)
(*Scale is currently set to be 1000 for all activities*)

Column [18]

This column is the sum of the costs listed in column [16].
Note: If a "cut line" value is specified in the box above the column [17] heading, the spreadsheet will show a bold horizontal line at the largest value in column [18] that is less than the "cut line". The "cut line" is automatically shown only when the spreadsheet is printed with option "I".

"Priority Listing Summary" Spreadsheet

The third spreadsheet, entitled "Priority Listing Summary", is available for a specially formatted summary listing of the calculations made by the "Transition Activity Priority Development" spreadsheet. Figure B-5 is a sample of this spreadsheet. The columns in the heading are numbered for the discussion below:

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Figure B-5

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Transition Priority Development Summary

Table 1

Priority Listing Summary

Note: "cut line" = 50.00 (\$M)

[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Calc Pri	In ADS	Dvr Code	Trans ID	Area	Transition Activity:	FY-85 Cost Est (\$M)	Σ Cost (\$M)
1 M	N	F	6901.011	184-C	Surveillance & Maintenance	0.007	0.01
2 M	N	F	6904.051	284-F	Surveillance & Maintenance	0.007	0.01
3 M		F	6906.001	G-Area	General Maintenance	0.012	0.03
4 M		D	6903.004	D-Area	Maintain Regulatory Permits	0.500	0.53
5 M		F	6902.008	100-R	Maintenance of Facility Systems for Safety, Habitability & S&M Activities	1.000	1.53
6 M		F	6907.009	100-P	Maintenance of Facility Systems for Safety, Habitability & S&M Activities	1.000	2.53
7 M		F	6901.009	100-C	Maintenance of Facility Systems for Safety, Habitability & S&M Activities	1.000	3.53
8 M		F	6905.009	100-L	Maintenance of Facility Systems for Safety, Habitability & S&M Activities	1.000	4.53
9 P		F	6904.084	232-F	Transition Plan	0.200	4.73
10		F	6904.100	235-F	Transition Plan	0.200	4.93
11		F	6904.116	HB-Line	Transition Plan	0.200	5.13
12		F	6904.132	H-Canyon	Transition Plan	0.200	5.33
13 P		C	6904.001	UC3	NEPA Studies Relative to UC3 storage	0.400	5.73
14		E	6904.007	UC3	Evaluate Status of Safety Documentation	0.100	5.83
15		E	6904.073	232-F	Evaluate Status of Safety Documentation	0.300	6.13
16		F	6904.010	UC3	Develop Plan for Maintenance Activities Necessary for Safety	0.100	6.23
17		F	6904.049	F-Canyon	Transition Plan	0.400	6.63
18		F	6904.068	F B-Line	Transition Plan	0.400	7.03
19		F	6904.078	232-F	Develop Training Plan	0.200	7.23
20		E	6904.008	UC3	Update Safety Documentation	0.400	7.63
21		F	6904.070	232-F	Document Facility Conditions & Baseline Operating & Maintenance	0.100	7.73
22		C	6904.071	232-F	Characterization Plan Development	0.100	7.83
23		C	6904.072	232-F	Facility Content Inventory	0.100	7.93
24		F	6904.079	232-F	Training of Personnel	0.300	8.23
25		E	6904.121	H-Canyon	Evaluate Status of Safety Documentation	0.300	8.53
26 P		C	6904.002	UC3	Sampling/Characterization of UC3 Inventory	0.600	9.13
27		F	6904.003	UC3	Develop Repackage/Certification Program for UC3	0.600	9.73
28		E	6904.022	300-M	Evaluate Status of Safety Documentation	0.300	10.03
29		E	6904.122	H-Canyon	Update Safety Documentation	0.300	10.33
30		E	6904.023	300-M	Update Safety Documentation	0.400	10.73
31		E	6904.089	235-F	Evaluate Status of Safety Documentation	0.200	10.93
32		C	6904.075	232-F	Develop NEPA Compliance Plan	0.300	11.23
33 P		F	6904.086	235-F	Document Facility Conditions & Baseline Operating & Maintenance	0.500	11.73
34		F	6904.005	UC3	Characterization Plan Development	0.200	11.93
35		F	6904.082	232-F	Engineering Evaluations of Methods to Stabilize Highly Contaminated Areas	0.700	12.63
36		C	6904.014	UC3	Evaluate Options for Disposal/Storage of Hazardous Waste	0.100	12.73
37		F	6904.096	235-F	D&D Planning with Supporting Engineering Studies	0.100	12.83
38		E	6904.058	F B-Line	Update Safety Documentation	0.400	13.23
39		E	6904.057	F B-Line	Evaluate Status of Safety Documentation	0.400	13.63
40		F	6904.029	300-M	D&D Planning with Supporting Engineering Studies	0.600	14.23
41		E	6904.038	F-Canyon	Evaluate Status of Safety Documentation	0.500	14.73
42 P		C	6904.021	300-M	Facility Content Inventory	0.200	14.93
43		C	6904.030	300-M	Evaluate Options for Disposal/Storage of Hazardous Waste	0.200	15.13
44 P		F	6904.019	300-M	Document Facility Conditions & Baseline Operating & Maintenance	0.800	15.93
45		F	6904.031	300-M	Engineering Evaluations of Methods to Stabilize Highly Contaminated Areas	0.200	16.13
46		F	6904.027	300-M	Develop Training Plan	0.100	16.23
47		F	6904.025	300-M	Develop Plan for Maintenance Activities Necessary for Safety	0.400	16.63
48		C	6904.097	235-F	Evaluate Options for Disposal/Storage of Hazardous Waste	0.100	16.73

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Trans. Print

Note: This figure is intended to illustrate the format and content of the spreadsheet. Actual data entered was generated during the development of the prioritization process and should not be mistaken for recommended prioritization.

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Column [1]

This column contains the *Calculated* priority number for the transition activity. The calculated priority number may differ from the *interim* priority number in the "Transition Activity Priority Development" spreadsheet because zero cost (for the selected fiscal year) will be shown on the "Transition Activity Priority Development" spreadsheet. When data are copied to the "Priority Listing Summary" spreadsheet, zero cost activities are omitted.

Columns [2] through [6]

These columns are copied directly from the "Transition Activity Priority Development" spreadsheet.

Columns [7] and [8]

These columns are copied directly from the "Transition Activity Priority Development" spreadsheet columns [16] and [18] respectively.

Note: The "cut line" value is specified in the box above the column [7] heading, the spreadsheet will show a bold horizontal line at the largest value in column [8] that is less than the "cut line".

Macro Program

A macro program has been developed to facilitate the priority calculations. Appendix E discusses the macro program in detail and lists the program features currently available. The normal sequence of steps in developing the transition priorities are:

1. enter data from the operating divisions/ departments into the "Transition Planning"

spreadsheet (Macro Option "v" is available for verifying validity of precedence ID numbers and compatibility of the "Reg" and "Other" scores with the DOE prescribed driver codes)

2. assign transition ID numbers to each activity (Macro Option "n" is available for initial assignment of ID numbers).

Note: If only small additions or revisions are made, manual assignments are recommended to preclude the possibility of having to re-assign precedence numbers.)

3. build the "Transition Activity Priority Development" spreadsheet using the Macro (Option "b").

Notes: Option "b" will request the two digit fiscal year number to be used for the prioritization. If Option "b" is being run in automatic sequence with other options, a manual input will be requested to either verify the "cut line" value being stored or to revise the "cut line" value.

4. set the "Transition Activity Priority Development" spreadsheet to calculate using total costs using the macro (Option "t").

5. sort the "Transition Activity Priority Development" spreadsheet by column [17] using macro option "c".

Note: This option also "stacks" the spreadsheet according to the precedence column data. For example, if "Must Do" is used in

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the precedence column (column [7]), the activity will be grouped with other "Must Do" activities at the top (highest priority) of the spreadsheet. and "Defer" activities will be stacked at the bottom (lowest priority) on the spreadsheet.

6. print the Transition Activity Priority Development spreadsheet using the macro (Option "p").

Note: This printout may show activities with zero costs (\$0.00) because the "CBR" sorting was done on total estimated costs and zero costs may have been estimated for the fiscal year selected in step 3).

7. recalculate the spreadsheet using the selected fiscal year costs using the macro (Option "r").

8. print the *limited* "Transition Activity Priority Development" spreadsheet using the macro (Option "l" {lower case letter "L"}).

Notes: This printout is in the same format as step 6. but omits zero costs (\$0.00) activities. Priority numbers are re-assigned for this option to account for the omitted activities and are called "Calc Pri". If Option "l" is not being run in an automatic sequence with other options, a manual input will be requested to either verify the "cut line" value being stored or to revise the "cut line" value.

9. copy non-zero cost activities to the "Priority Listing Summary" spreadsheet and print this

spreadsheet using the macro (Option "s").

Note: If Option "s" is not being run in an automatic sequence with other options, a manual input will be requested to either verify the "cut line" value being stored or to revise the "cut line" value.

Steps 1 through 9 should be repeated as necessary to obtain consensus of the priority calculations. It is envisioned (for example) that "Assig-" numbers would not be chosen until after at least the first iteration.

The macro program can automatically execute the series of steps listed above with Option "r".

APPENDIX C

Report Format

Whenever new/revised lists of transition priorities are developed, they may be transmitted to management/DOE in the form of a one to two-page transmittal letter with the following attachments:

Table 1	A priority listing summary prepared using the macro (Option "s") <i>This summary is illustrated in Figure B-5.</i>
Appendix A	The attributes, scoring methods, cost adjustment convention, DOE "driver" codes, and the special "flags" used in the priority columns prepared using the macro (Option "h"). This printout is illustrated in Figure C-1A and C-1B.
Appendix B	The "Transition Planning Worksheet" that is the primary input vehicle for the prioritization prepared using the Excel® print feature directly. <i>This printout is illustrated in Figure B-2A and B-2B.</i>
Appendix C	The spreadsheet "initial" prioritization based on estimated total activity costs prepared using the macro (Option "p"). <i>This printout is illustrated in Figure B-4.</i>
Appendix D	The spreadsheet (similar to Appendix C) showing the prioritization with FY estimated costs. Table 1, a "less busy" version of Appendix. C, is prepared using the Macro (Option "l") <i>This printout is illustrated in Figure B-4.</i>

The concept is that management's interests would normally be limited to Table 1. The appendices are for "staff support."

The macro program can automatically execute the series of steps listed above with Option "r".

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Transition Activity Priority Development

Appendix A

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Attribute Definitions

Mnemonic	Rel Wt.	Score Range	Attribute Title	Attribute Description (See examples below)
N/A	0	N/A	Reserved for future use	
PSafe	20	0->6	Personnel Safety	Personnel Safety (OSHA), ALARA, Habitability
Regs	9	0->6	Environmental Regulation	Activity required to meet mandatory prescriptive regulations, laws
Stwd	5	0->6	Environmental Stewardship	Best management practices for minimizing environmental releases
P/R	5	0->6	Public Perception	Enhance public perception of DOE (& WSRC) stewardship
Other	3	0->6	Other Requirements	Other DOE, DOT, etc. requirements not covered above
C.Eff	3	0->6	Cost Effectiveness	Relative costs involved if the activity is not pursued or delayed

Attribute Scoring

Mnemonic	Score Value*	Example of use of this score
N/A	0	Reserved for future use
	0	Reserved for future use
PSafe	0	The activity will have a negligible effect on Personnel Safety ALARA or Habitability
	6	The activity will have a significant effect on Personnel Safety ALARA or Habitability
Regs	0	No Regulatory or legal requirements are applicable
	1 - 4	Regulatory or legal requirements may be involved
	6	Regulatory or legal requirements definitely involved
Stwd	0	The activity will have a no effect on eliminating/reducing current or future environmental releases
	6	The activity will have a significant effect on eliminating/reducing current or future environmental releases
P/R	0	The activity will have a no effect on the public perception of DOE (& WSRC) stewardship
	6	The activity will have a significant effect on the public perception of DOE (& WSRC) stewardship
Other	0	The activity will have a no effect on compliance with other requirements/regulations
	6	The activity will have a significant effect on compliance with other requirements/regulations
C.Eff	0	No additional costs are expected to be involved with deferral of this activity
	6	Significant costs savings are expected to be achieved because of completion of this activity

* See Appendix A of the report on Prioritization of Transition Activities for more scoring details.

Adjustments to Cost Estimates

Cost Adjustment Multiplier Code		
(Note: Cost = Cost of Implementing the Transition Activity)		
Code	Mult.	Type Estimate
e	1.0	Engineered Est. based on compl. of Title I Design
c	2.0	Engineered Est. based on compl. of Concept Design
h	3.0	"High Spot" Estimate, no Design

Figure C-1A

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Transition Activity Priority Development

Appendix A

Activity "Driver" Definitions from the Department of Energy

Driver (Dvr) Code ID	DRIVER DESCRIPTION	Legal, ES&H, or Other
A	Required by a Compliance Agreement	Legal
B	Required by a Court Order or Consent Decree	Legal
C	Required by Federal Statute or Regulation (including permits in Place)	Legal
D	Required by State or Local Statute or Regulation (including permits in Place)	Legal
E	Required by DOE Order-Environment, Safety and Health	ES&H
F	Required by DOE Order-Management and Other	Other
G	Required by Agreements-in-Principle or Agreements with Indian Nations	Other
H	Required to meet a proposed compliance agreement (in negotiation, but not yet Signed)	Legal
I	Other Essential Management Functions	Other

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Expected Scores for "Validity" Test *	
Regs	Other
5	Any
5	Any
4	Any
3	Any
3	4
Any	4
0	Any
3	Any
0	Any

* Used by
Option "v" on ADS
Spreadsheet.

(Expected scores
are within ± 2.0
of values shown)

Priority Column (Column [1]) Special Flags

Flag	Meaning
A	Priority number manually Assigned (Management Option)
D	Priority designated as "Deferred" (Management Option)
E	Possible Error; could not match designated "precedence" with available activity
M	Base line ("Must do") activity put at top of list
P	Priority determined by "Precedence" designation of another activity

Figure C-1B

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APPENDIX D

Sensitivity Evaluation

The prioritization process discussed in this report has three categories of input data: attribute relative weights, activity "scores" for each attribute and estimated costs.

The attribute relative weights (a total of six numbers representing the six chosen attributes) comprises the smallest set of inputs, but are globally applied to each activity. Sensitivity evaluations of the attribute relative weights are discussed below.

The activity "scores" comprise the most inputs (six for each activity) but are limited in range (values between zero and six). Sensitivity evaluations of the effect of changing "scores" were not performed because of the independence of each score, and the ease with which individual manual "score" evaluations are possible.

Sensitivity evaluations related to the use of the cost data were performed and are discussed below.

Sensitivity to Attribute Relative Weights

A special macro option (option "j") was developed to run a series of calculations and sorts (for priority determination) to evaluate the effects on the priority of each activity by doubling and halving each attribute relative weight. Details for running option "j" are discussed in Appendix E.

The evaluations were made using 199 "DRAFT" transition activities available during the process development. The base case priority

numbers were calculated using the attribute relative weights discussed in section IV of this report. The first test case changed the *Personnel Safety* attribute relative weight from 20 to 40 (doubled), recalculated the weighted scores and cost-benefit ratio, and resorted for priority determination. The change in priority for each activity was calculated and the maximum $\pm$ changes tabulated.

The next test changed the *Personnel Safety* attribute relative weight from 20 to 10 (halved) and repeated the steps above. Similar tests were run for the other five attributes. The results of this evaluation are shown in Attachment D-1.

Observations derived from examination of Attachment D-1 are that:

- the priorities of most activities changed little with the extreme changes in attribute relative weight. The few extreme cases showed changes of the order of 40% (shift in priority number) with a 100% change in attribute relative weight.
- Although the attribute relative weights are important to the prioritization process, high percussion on the weights selected is not justified in most cases because of the imprecision inherent in developing the activity "scores".

Sensitivity to Estimated Costs

An unmodified cost-benefit ratio calculation has the cost estimate equal in importance to the "benefit" (weighted score). Uncertainties in

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the cost estimate then become the driver in the net precision achievable. Simply "low-balling" an estimate can readily drive the priority higher (lower priority number.)

Evaluations were performed on the effect of using several methods for using costs in the priority calculations. In these evaluations, multiple "sets" priority calculations for 91 hypothetical activities were performed. In each "set" a random number generator routine assigned "weighted score" and "cost" values. Each "set" had a different set of these values.

The measure of how good the prioritization worked was a calculation of the sum of the "Weighted Scores" above the "cut line". The "cut line" was at the lowest priority that had the sum of the estimated costs at a constant value (emulating a budget constraint).

A spreadsheet entitled "CBR Test" and a companion macro spreadsheet entitled "CBR Test Macro" were developed for this evaluation. The summary data listed in Figures D-1 through D-3 represent the minimum, average and maximum values of the sum of the Weighted Scores of activities above the "cut line". Figures D-1 through D-3 represent three sets (or cases), each using different random number generated "Costs" and "Weighted Scores".

The summary results of these calculations shown in Figures D-1 through D-3 are also presented in two graphs on each figure. The top graph shows the effect of changing the exponent in the equation:

$$\text{CBR} = \frac{(\text{Cost})^{\text{Exp}}}{\text{Wtd Score}}$$

Where:

CBR = cost-benefit ratio

Cost = the random number generated "cost"

Exp = the exponent (different trials used Exp values of 0.25, 0.5, 0.75, 1.0, 1.25, and 1.5)

Wtd Score = the random number generated "Weighted Scores"

The bottom graph shows the effect of different methods for calculating the priorities. The data for the "w" sort shows that by sorting only on weighted score (as opposed to CBR) the sum of the "benefits" achieved within budget constraints (activities above the "cut line") range from 40% to 55% of what may be expected from a cost-benefit ratio sort. The "c" and "e" data represent sorting by CBR with Exp=1.0 for the "c" data and Exp=0.25 for the "e" data. Although some additional benefit may be seen in the average data for using a simple CBR (Exp=1.0) calculation. The improvement is small when compared to the spread between the minimum and maximum values.

In conclusion, if the criteria for successful prioritization is to attain the maximum total benefit with available funds:

- the CBR calculation method (whether simple or modified CBR) yields more total benefits fiscal constraints; and
- using the modified CBR calculation that takes the fourth root of the cost is essentially equivalent to the simple CBR calculation.

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Figure D-1

Random "Cost" and Random "Benefit" Studies

Trial Group 1

Cost Exp	Sort Ltr	Test Summary			Sort Option Summary (Relative to Avg Avg)				Exponent Summary (Relative to Avg Avg)			
		Min	Avg	Max	Sort Ltr	Min	Avg	Max	Exp	Min	Avg	Max
0.25	w	234.33	317.61	444.81					0.25	0.28	0.89	1.49
0.50	w	234.03	317.61	444.81					0.50	0.28	0.99	1.49
0.75	w	234.03	317.61	444.81					0.75	0.28	1.03	1.49
1.00	w	234.03	317.61	444.81	w	0.28	0.37	0.52	1.00	0.28	1.03	1.49
1.25	w	234.03	317.61	444.81	c	1.29	1.37	1.49	1.25	0.28	1.03	1.49
1.50	w	234.03	317.61	444.81	e	0.86	1.26	1.49	1.50	0.28	1.02	1.49
0.25	c	1093.19	1161.14	1266.68								
0.50	c	1093.19	1161.14	1266.68								
0.75	c	1093.19	1161.14	1266.68								
1.00	c	1093.19	1161.14	1266.68								
1.25	c	1093.19	1161.14	1266.68								
1.50	c	1093.19	1161.14	1266.68								
0.25	e	731.62	792.72	851.54								
0.50	e	950.99	1051.57	1242.50								
0.75	e	1084.71	1151.39	1259.97								
1.00	e	1093.19	1161.14	1266.68								
1.25	e	1087.38	1152.14	1259.65								
1.50	e	1068.48	1127.67	1209.80								
Avg Avg:		850.50										

Random Value Test Summary

Sort Option Study

Sort Option Sorts:

- w = Sort by Weighted Score Col.
 c = Sort Cost+Weighted Score Col.
 e = (Sort Cost^Exp)+Weighted Score Col.

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Figure D-2

Random "Cost" and Random "Benefit" Studies

Trial Group 2

Cost Exp	Sort Ltr	Test Summary			Sort Option Summary (Relative to Avg Avg)				Exponent Summary (Relative to Avg Avg)			
		Min	Avg	Max					Exp	Min	Avg	Max
0.25	w	250.36	325.88	428.23	Sort Ltr	Min	Avg	Max	0.25	0.38	0.88	1.40
0.50	w	250.36	325.88	428.23					0.50	0.38	0.99	1.40
0.75	w	250.36	325.88	428.23					0.75	0.38	1.03	1.40
1.00	w	250.36	325.88	428.23					1.00	0.38	1.04	1.40
1.25	w	250.36	325.88	428.23					1.25	0.38	1.03	1.40
1.50	w	250.36	325.88	428.23	e	0.73	1.20	1.40	1.50	0.38	1.03	1.40
0.25	c	763.26	874.55	932.85								
0.50	c	763.26	874.55	932.85								
0.75	c	763.26	874.55	932.85								
1.00	c	763.26	874.55	932.85								
1.25	c	763.26	874.55	932.85								
1.50	c	763.26	874.55	932.85								
0.25	e	483.18	547.84	631.36								
0.50	e	677.99	776.73	870.80								
0.75	e	749.77	863.46	932.45								
1.00	e	763.26	874.55	932.85								
1.25	e	742.68	863.32	932.85								
1.50	e	708.30	849.10	924.94								
Avg Avg:		665.42										

Random Value Test Summary

Cost Exp	Min	Avg	Max
0.25	0.38	0.88	1.40
0.50	0.38	0.99	1.40
0.75	0.38	1.03	1.40
1.00	0.38	1.04	1.40
1.25	0.38	1.03	1.40
1.50	0.38	1.03	1.40

Random Value Test Summary

Sort Option Study

Sort Option Sorts:

- w = Sort by Weighted Score Col.
c = Sort Cost+Weighted Score Col.
e = (Sort Cost^Exp)+Weighted Score Col.

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CBR Test

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Figure D-3

Random "Cost" and Random "Benefit" Studies

Trial Group 3

Cost Exp	Sort Ltr	Test Summary			Sort Option Summary (Relative to Avg Avg)				Exponent Summary (Relative to Avg Avg)			
		Min	Avg	Max					Exp	Min	Avg	Max
0.25	w	264.65	402.91	565.36	Sort Ltr	Min	Avg	Max	0.25	0.33	0.90	1.59
0.50	w	264.65	402.91	565.36					0.50	0.33	0.99	1.59
0.75	w	264.65	402.91	565.36					0.75	0.33	1.02	1.59
1.00	w	264.65	402.91	565.36					1.00	0.33	1.03	1.59
1.25	w	264.65	402.91	565.36					1.25	0.33	1.03	1.59
1.50	w	264.65	402.91	565.36	e	0.54	1.20	1.59	1.50	0.33	1.02	1.59
0.25	c	847.08	1039.78	1276.55								
0.50	c	847.08	1039.78	1276.55								
0.75	c	847.08	1039.78	1276.55								
1.00	c	847.08	1039.78	1276.55								
1.25	c	847.08	1039.78	1276.55								
1.50	c	847.08	1039.78	1276.55								
0.25	e	436.83	720.18	1003.63								
0.50	e	753.63	950.52	1251.36								
0.75	e	837.01	1023.75	1263.67								
1.00	e	847.08	1039.78	1276.55								
1.25	e	831.87	1034.41	1268.07								
1.50	e	822.84	1019.96	1223.27								
Avg Avg:		802.49										

Random Value Test Summary

Cost Exp	Min	Avg	Max
0.25	0.30	0.85	1.60
0.50	0.30	1.00	1.60
0.75	0.30	1.00	1.60
1.00	0.30	1.00	1.60
1.25	0.30	1.00	1.60
1.50	0.30	1.00	1.60

Random Value Test Summary

Sort Option Study

Sort Option Sorts:

- w = Sort by Weighted Score Col.
c = Sort Cost+Weighted Score Col.
e = (Sort Cost^Exp)+Weighted Score Col.

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Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case->	Base	Test # 1	Test # 2	Test # 3	Test # 4	Test # 5	Test # 6
Attribute Mnemonic	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base: 44

Most Negative Shift in Priority No. from Base: -49

Average Positive Shift in Priority No. from Base: 8%

Average Negative Shift in Priority No. from Base: -8%

0	28	44	24	18	18
0	-49	-25	-18	-19	-14
0%	14%	22%	12%	9%	9%
0%	-25%	-13%	-9%	-10%	-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
284-F	Transition Planning	6904.052	2	2	0	5	-3	2	0	2	0	2	0	2	0
184-C	Surveillance & Maintenance	6901.011	3	3	0	2	1	3	0	3	0	4	-1	4	-1
284-F	Surveillance & Maintenance	6904.051	4	4	0	3	1	4	0	4	0	5	-1	5	-1
232-F	Update Safety Documentation	6904.074	5	5	0	1	4	5	0	5	0	3	2	3	2
232-F	D&D Planning with Supporting Engineering Studies	6904.080	6	6	0	6	0	6	0	6	0	6	0	6	0
232-F	Transition Plan	6904.084	7	7	0	10	-3	7	0	7	0	9	-2	8	-1
300-M	Transition Plan	6904.033	8	8	0	11	-3	8	0	8	0	10	-2	9	-1
HB-Line	Transition Plan	6904.116	9	9	0	12	-3	9	0	9	0	11	-2	10	-1
235-F	Transition Plan	6904.100	10	10	0	13	-3	10	0	10	0	12	-2	11	-1
H-Canyon	Transition Plan	6904.132	11	11	0	14	-3	11	0	11	0	13	-2	12	-1
Tritium	Transition Plan	6904.148	12	12	0	15	-3	12	0	12	0	14	-2	13	-1
UO3	Structural Studies	6904.011	13	13	0	8	5	13	0	13	0	8	5	7	6
UO3	Evaluate Status of Safety Documentation	6904.007	14	14	0	7	7	14	0	14	0	7	7	14	0
232-F	Evaluate Status of Safety Documentation	6904.073	15	15	0	9	6	17	-2	19	-4	15	0	15	0
UO3	Facility Content Inventory	6904.006	16	16	0	16	0	18	-2	15	1	16	0	16	0
UO3	Develop Plan for Maintenance Activities Necessary for Safety	6904.010	17	17	0	17	0	19	-2	16	1	17	0	17	0
F-Canyon	Transition Plan	6904.049	18	18	0	20	-2	15	3	17	1	20	-2	19	-1
F B-Line	Transition Plan	6904.068	19	19	0	21	-2	16	3	18	1	21	-2	20	-1
UO3	Transition Plan	6904.018	20	20	0	18	2	21	-1	20	0	19	1	21	-1
232-F	Develop Training Plan	6904.078	21	21	0	19	2	20	1	21	0	18	3	18	3
UO3	Update Safety Documentation	6904.008	22	22	0	22	0	25	-3	25	-3	22	0	22	0
232-F	Document Facility Conditions & Baseline Operating & Mainten.	6904.070	23	23	0	23	0	22	1	22	1	23	0	23	0
232-F	Characterization Plan Development	6904.071	24	24	0	24	0	23	1	23	1	24	0	24	0
232-F	Facility Content Inventory	6904.072	25	25	0	25	0	24	1	24	1	25	0	25	0
UO3	Develop Training Plan	6904.012	26	26	0	26	0	27	-1	26	0	28	-2	26	0
UO3	Document Facility Conditions & Baseline Operating & Mainten.	6904.004	27	27	0	28	-1	30	-3	27	0	29	-2	29	-2

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 7 Rel Wt.	Test # 8 Rel Wt.	Test # 9 Rel Wt.	Test # 10 Rel Wt.	Test # 11 Rel Wt.	Test # 12 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Averag:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Averaget Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
284-F	Transition Planning	6904.052	2	2	0	2	0	2	0	2	0	2	0	2	0
184-C	Surveillance & Maintenance	6901.011	3	3	0	4	-1	3	0	3	0	3	0	4	-1
284-F	Surveillance & Maintenance	6904.051	4	4	0	5	-1	4	0	4	0	4	0	5	-1
232-F	Update Safety Documentation	6904.074	5	5	0	3	2	5	0	5	0	5	0	3	2
232-F	D&D Planning with Supporting Engineering Studies	6904.080	6	6	0	6	0	6	0	6	0	6	0	6	0
232-F	Transition Plan	6904.084	7	7	0	8	-1	7	0	7	0	7	0	7	0
300-M	Transition Plan	6904.033	8	8	0	9	-1	8	0	8	0	8	0	8	0
HB-Line	Transition Plan	6904.116	9	9	0	10	-1	9	0	9	0	9	0	9	0
235-F	Transition Plan	6904.100	10	10	0	11	-1	10	0	10	0	10	0	10	0
H-Canyon	Transition Plan	6904.132	11	11	0	12	-1	11	0	11	0	11	0	11	0
Tritium	Transition Plan	6904.148	12	12	0	13	-1	12	0	12	0	12	0	12	0
UO3	Structural Studies	6904.011	13	14	-1	7	6	14	-1	13	0	13	0	14	-1
UO3	Evaluate Status of Safety Documentation	6904.007	14	13	1	14	0	13	1	14	0	14	0	13	1
232-F	Evaluate Status of Safety Documentation	6904.073	15	15	0	15	0	15	0	15	0	15	0	15	0
UO3	Facility Content Inventory	6904.006	16	16	0	16	0	16	0	16	0	16	0	18	-2
UO3	Develop Plan for Maintenance Activities Necessary for Safety	6904.010	17	17	0	17	0	17	0	17	0	17	0	19	-2
F-Canyon	Transition Plan	6904.049	18	19	-1	19	-1	19	-1	18	0	19	-1	16	2
F B-Line	Transition Plan	6904.068	19	20	-1	20	-1	20	-1	19	0	20	-1	17	2
UO3	Transition Plan	6904.018	20	18	2	21	-1	18	2	21	-1	18	2	20	0
232-F	Develop Training Plan	6904.078	21	21	0	18	3	21	0	20	1	21	0	21	0
UO3	Update Safety Documentation	6904.008	22	25	-3	22	0	25	-3	22	0	22	0	22	0
232-F	Document Facility Conditions & Baseline Operating & Mainten.	6904.070	23	22	1	23	0	22	1	23	0	23	0	23	0
232-F	Characterization Plan Development	6904.071	24	23	1	24	0	23	1	24	0	24	0	24	0
232-F	Facility Content Inventory	6904.072	25	24	1	25	0	24	1	25	0	25	0	25	0
UO3	Develop Training Plan	6904.012	26	27	-1	27	-1	26	0	28	-2	26	0	26	0
UO3	Document Facility Conditions & Baseline Operating & Mainten.	6904.004	27	26	1	29	-2	27	0	27	0	27	0	28	-1

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 1 Rel Wt.	Test # 2 Rel Wt.	Test # 3 Rel Wt.	Test # 4 Rel Wt.	Test # 5 Rel Wt.	Test # 6 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base:	44	0	28	44	24	18	18
Most Negative Shift in Priority No. from Base:	-49	0	-49	-25	-18	-19	-14
Average Positive Shift in Priority No. from Base:	8%	0%	14%	22%	12%	9%	9%
Average Negative Shift in Priority No. from Base:	-8%	0%	-25%	-13%	-9%	-10%	-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
Tritium	Update Safety Documentation	6904.138	28	28	0	27	1	31	-3	29	-1	26	2	28	0
232-F	Training of Personnel	6904.079	29	29	0	36	-7	29	0	39	-10	27	2	27	2
HB-Line	Evaluate Status of Safety Documentation	6904.105	30	30	0	30	0	33	-3	31	-1	30	0	31	-1
Tritium	Evaluate Status of Safety Documentation	6904.137	31	31	0	31	0	34	-3	32	-1	31	0	32	-1
H-Canyon	Evaluate Status of Safety Documentation	6904.121	32	32	0	32	0	38	-6	37	-5	32	0	34	-2
UO3	Develop Repackage/Certification Program for UO3	6904.003	33	33	0	29	4	53	-20	36	-3	36	-3	33	0
300-M	Evaluate Status of Safety Documentation	6904.022	34	34	0	33	1	40	-6	40	-6	33	1	36	-2
H-Canyon	Update Safety Documentation	6904.122	35	35	0	34	1	41	-6	41	-6	34	1	37	-2
300-M	Update Safety Documentation	6904.023	36	36	0	35	1	42	-6	42	-6	35	1	38	-2
HB-Line	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.113	37	37	0	41	-4	35	2	33	4	38	-1	44	-7
235-F	Evaluate Status of Safety Documentation	6904.089	38	38	0	37	1	45	-7	44	-6	37	1	40	-2
232-F	Develop NEPA Compliance Plan	6904.075	39	39	0	69	-30	26	13	28	11	54	-15	35	4
G-Area	General Maintenance	6906.001	40	40	0	52	-12	32	8	47	-7	39	1	30	10
235-F	Develop Plan for Maintenance Activities Necessary for Safety	6904.092	41	41	0	39	2	49	-8	34	7	43	-2	47	-6
UO3	Characterization Plan Development	6904.005	42	42	0	40	2	50	-8	35	7	44	-2	48	-6
232-F	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.082	43	43	0	45	-2	43	0	43	0	42	1	51	-8
UO3	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.014	44	44	0	42	2	47	-3	38	6	45	-1	49	-5
235-F	D&D Planning with Supporting Engineering Studies	6904.096	45	45	0	53	-8	36	9	50	-5	40	5	39	6
H-Canyon	Develop NEPA Compliance Plan	6904.123	46	46	0	83	-37	28	18	30	16	60	-14	42	4
Tritium	D&D Planning with Supporting Engineering Studies	6904.144	47	47	0	56	-9	37	10	51	-4	46	1	41	6
235-F	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.098	48	48	0	49	-1	51	-3	48	0	50	-2	56	-8
HB-Line	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.114	49	49	0	50	-1	52	-3	49	0	51	-2	57	-8
232-F	Structural Studies	6904.077	50	50	0	38	12	71	-21	62	-12	41	9	53	-3
232-F	Develop Plan for Maintenance Activities Necessary for Safety	6904.076	51	51	0	46	5	57	-6	45	6	56	-5	58	-7
F B-Line	Develop Plan for Maintenance Activities Necessary for Safety	6904.060	52	52	0	47	5	58	-6	46	6	57	-5	59	-7
F B-Line	Update Safety Documentation	6904.058	53	53	0	44	9	59	-6	56	-3	47	6	52	1
HB-Line	D&D Planning with Supporting Engineering Studies	6904.112	54	54	0	58	-4	39	15	53	1	49	5	43	11

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 7 Rel Wt.	Test # 8 Rel Wt.	Test # 9 Rel Wt.	Test # 10 Rel Wt.	Test # 11 Rel Wt.	Test # 12 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Average:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Average Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
Tritium	Update Safety Documentation	6904.138	28	28	0	28	0	28	0	26	2	28	0	27	1
232-F	Training of Personnel	6904.079	29	32	-3	26	3	33	-4	31	-2	29	0	32	-3
HB-Line	Evaluate Status of Safety Documentation	6904.105	30	29	1	30	0	29	1	29	1	30	0	29	1
Tritium	Evaluate Status of Safety Documentation	6904.137	31	30	1	31	0	30	1	30	1	31	0	30	1
H-Canyon	Evaluate Status of Safety Documentation	6904.121	32	31	1	32	0	32	0	32	0	33	-1	34	-2
UO3	Develop Repackage/Certification Program for UO3	6904.003	33	34	-1	40	-7	31	2	39	-6	32	1	41	-8
300-M	Evaluate Status of Safety Documentation	6904.022	34	35	-1	34	0	35	-1	35	-1	34	0	36	-2
H-Canyon	Update Safety Documentation	6904.122	35	36	-1	35	0	36	-1	36	-1	35	0	37	-2
300-M	Update Safety Documentation	6904.023	36	37	-1	36	0	37	-1	37	-1	36	0	38	-2
HB-Line	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.113	37	33	4	41	-4	34	3	33	4	38	-1	31	6
235-F	Evaluate Status of Safety Documentation	6904.089	38	38	0	37	1	38	0	38	0	37	1	40	-2
232-F	Develop NEPA Compliance Plan	6904.075	39	43	-4	33	6	43	-4	34	5	40	-1	39	0
G-Area	General Maintenance	6906.001	40	52	-12	39	1	44	-4	48	-8	39	1	33	7
235-F	Develop Plan for Maintenance Activities Necessary for Safety	6904.092	41	39	2	43	-2	39	2	42	-1	41	0	48	-7
UO3	Characterization Plan Development	6904.005	42	40	2	44	-2	40	2	43	-1	42	0	49	-7
232-F	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.082	43	41	2	47	-4	41	2	40	3	44	-1	35	8
UO3	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.014	44	42	2	46	-2	42	2	45	-1	43	1	43	1
235-F	D&D Planning with Supporting Engineering Studies	6904.096	45	51	-6	42	3	47	-2	44	1	45	0	42	3
H-Canyon	Develop NEPA Compliance Plan	6904.123	46	49	-3	38	8	51	-5	41	5	47	-1	47	-1
Tritium	D&D Planning with Supporting Engineering Studies	6904.144	47	54	-7	45	2	52	-5	49	-2	48	-1	46	1
235-F	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.098	48	44	4	53	-5	45	3	46	2	52	-4	44	4
HB-Line	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.114	49	45	4	54	-5	46	3	47	2	53	-4	45	4
232-F	Structural Studies	6904.077	50	48	2	50	0	50	0	57	-7	46	4	54	-4
232-F	Develop Plan for Maintenance Activities Necessary for Safety	6904.076	51	46	5	56	-5	48	3	52	-1	49	2	57	-6
F B-Line	Develop Plan for Maintenance Activities Necessary for Safety	6904.060	52	47	5	57	-5	49	3	53	-1	50	2	58	-6
F B-Line	Update Safety Documentation	6904.058	53	50	3	49	4	54	-1	51	2	51	2	53	0
HB-Line	D&D Planning with Supporting Engineering Studies	6904.112	54	56	-2	48	6	55	-1	50	4	54	0	50	4

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case->	Base	Test # 1	Test # 2	Test # 3	Test # 4	Test # 5	Test # 6
Attribute Mnemonic	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base:	44	0	28	44	24	18	18
Most Negative Shift in Priority No. from Base:	-49	0	-49	-25	-18	-19	-14
Average Positive Shift in Priority No. from Base:	8%	0%	14%	22%	12%	9%	9%
Average Negative Shift in Priority No. from Base:	-8%	0%	-25%	-13%	-9%	-10%	-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
F B-Line	Evaluate Status of Safety Documentation	6904.057	55	55	0	48	7	61	-6	60	-5	48	7	54	1
F B-Line	D&D Planning with Supporting Engineering Studies	6904.064	56	56	0	61	-5	44	12	55	1	52	4	45	11
UO3	Material Repackaging & Transport	6904.017	57	57	0	43	14	73	-16	57	0	53	4	55	2
300-M	D&D Planning with Supporting Engineering Studies	6904.029	58	58	0	63	-5	48	10	61	-3	55	3	46	12
H-Canyon	D&D Planning with Supporting Engineering Studies	6904.128	59	59	0	67	-8	55	4	64	-5	59	0	50	9
F-Canyon	Evaluate Status of Safety Documentation	6904.038	60	60	0	51	9	69	-9	72	-12	58	2	62	-2
F B-Line	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.066	61	61	0	59	2	62	-1	63	-2	62	-1	66	-5
235-F	Develop Training Plan	6904.094	62	62	0	62	0	63	-1	66	-4	63	-1	61	1
HB-Line	Develop Plan for Maintenance Activities Necessary for Safety	6904.108	63	63	0	54	9	74	-11	58	5	68	-5	67	-4
Tritium	Develop Plan for Maintenance Activities Necessary for Safety	6904.140	64	64	0	55	9	75	-11	59	5	69	-5	68	-4
300-M	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.030	65	65	0	64	1	65	0	68	-3	65	0	74	-9
300-M	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.031	66	66	0	65	1	66	0	69	-3	66	0	75	-9
H-Canyon	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.130	67	67	0	66	1	67	0	70	-3	67	0	76	-9
235-F	Update Safety Documentation	6904.090	68	68	0	57	11	80	-12	78	-10	61	7	65	3
300-M	Develop Training Plan	6904.027	69	69	0	68	1	68	1	71	-2	70	-1	63	6
F-Canyon	D&D Planning with Supporting Engineering Studies	6904.045	70	70	0	84	-14	60	10	76	-6	64	6	60	10
F B-Line	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.065	71	71	0	70	1	72	-1	73	-2	71	0	78	-7
300-M	Develop Plan for Maintenance Activities Necessary for Safety	6904.025	72	72	0	60	12	83	-11	67	5	73	-1	77	-5
Tritium	Develop NEPA Compliance Plan	6904.139	73	73	0	96	-23	46	27	52	21	89	-16	64	9
235-F	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.097	74	74	0	78	-4	76	-2	74	0	74	0	80	-6
H-Canyon	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.129	75	75	0	79	-4	77	-2	75	0	75	0	81	-6
Tritium	Develop Training Plan	6904.142	76	76	0	80	-4	78	-2	77	-1	77	-1	70	6
300-M	Develop NEPA Compliance Plan	6904.024	77	77	0	99	-22	54	23	54	23	91	-14	71	6
Tritium	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.145	78	78	0	81	-3	81	-3	82	-4	80	-2	83	-5
Tritium	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.146	79	79	0	82	-3	82	-3	83	-4	81	-2	84	-5
HB-Line	Update Safety Documentation	6904.106	80	80	0	73	7	95	-15	94	-14	78	2	82	-2
UO3	Sampling/Characterization of UO3 Inventory	6904.002	81	81	0	75	6	91	-10	79	2	85	-4	85	-4

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 7 Rel Wt.	Test # 8 Rel Wt.	Test # 9 Rel Wt.	Test # 10 Rel Wt.	Test # 11 Rel Wt.	Test # 12 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSale	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Average:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Average Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
F B-Line	Evaluate Status of Safety Documentation	6904.057	55	53	2	52	3	56	-1	55	0	56	-1	56	-1
F B-Line	D&D Planning with Supporting Engineering Studies	6904.064	56	58	-2	51	5	57	-1	54	2	57	-1	51	5
UO3	Material Repackaging & Transport	6904.017	57	55	2	61	-4	53	4	59	-2	55	2	63	-6
300-M	D&D Planning with Supporting Engineering Studies	6904.029	58	62	-4	55	3	58	0	56	2	58	0	52	6
H-Canyon	D&D Planning with Supporting Engineering Studies	6904.128	59	66	-7	58	1	60	-1	58	1	59	0	55	4
F-Canyon	Evaluate Status of Safety Documentation	6904.038	60	59	1	60	0	61	-1	61	-1	60	0	64	-4
F B-Line	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.066	61	57	4	66	-5	59	2	60	1	64	-3	59	2
235-F	Develop Training Plan	6904.094	62	68	-6	59	3	68	-6	68	-6	61	1	74	-12
HB-Line	Develop Plan for Maintenance Activities Necessary for Safety	6904.108	63	60	3	67	-4	62	1	65	-2	62	1	70	-7
Tritium	Develop Plan for Maintenance Activities Necessary for Safety	6904.140	64	61	3	68	-4	63	1	66	-2	63	1	71	-7
300-M	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.030	65	63	2	74	-9	64	1	62	3	67	-2	60	5
300-M	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.031	66	64	2	75	-9	65	1	63	3	68	-2	61	5
H-Canyon	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.130	67	65	2	76	-9	66	1	64	3	69	-2	62	5
235-F	Update Safety Documentation	6904.090	68	67	1	64	4	67	1	70	-2	66	2	69	-1
300-M	Develop Training Plan	6904.027	69	73	-4	62	7	74	-5	74	-5	65	4	76	-7
F-Canyon	D&D Planning with Supporting Engineering Studies	6904.045	70	76	-6	65	5	71	-1	71	-1	70	0	66	4
F B-Line	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.065	71	69	2	78	-7	69	2	67	4	72	-1	65	6
300-M	Develop Plan for Maintenance Activities Necessary for Safety	6904.025	72	70	2	77	-5	70	2	76	-4	71	1	78	-6
Tritium	Develop NEPA Compliance Plan	6904.139	73	77	-4	63	10	77	-4	69	4	74	-1	75	-2
235-F	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.097	74	71	3	80	-6	72	2	72	2	75	-1	67	7
H-Canyon	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.129	75	72	3	81	-6	73	2	73	2	76	-1	68	7
Tritium	Develop Training Plan	6904.142	76	78	-2	70	6	78	-2	79	-3	73	3	81	-5
300-M	Develop NEPA Compliance Plan	6904.024	77	82	-5	71	6	82	-5	75	2	77	0	77	0
Tritium	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.145	78	74	4	83	-5	75	3	77	1	78	0	72	6
Tritium	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.146	79	75	4	84	-5	76	3	78	1	79	0	73	6
HB-Line	Update Safety Documentation	6904.106	80	84	-4	82	-2	84	-4	83	-3	83	-3	86	-6
UO3	Sampling/Characterization of UO3 Inventory	6904.002	81	79	2	85	-4	79	2	84	-3	80	1	87	-6

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 1 Rel Wt.	Test # 2 Rel Wt.	Test # 3 Rel Wt.	Test # 4 Rel Wt.	Test # 5 Rel Wt.	Test # 6 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base: 44

Most Negative Shift in Priority No. from Base: -49

Average Positive Shift in Priority No. from Base: 8%

Average Negative Shift in Priority No. from Base: -8%

0

0

0%

0%

28

-49

14%

-25%

44

-25

22%

-13%

24

-18

12%

-9%

18

-19

9%

-10%

18

-14

9%

-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
300-M	Facility Content Inventory	6904.021	82	82	0	76	6	92	-10	80	2	86	-4	86	-4
300-M	Characterization Plan Development	6904.020	83	83	0	77	6	93	-10	81	2	87	-4	87	-4
232-F	Deactivation	6904.083	84	84	0	93	-9	70	14	88	-4	79	5	73	11
F-Canyon	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.047	85	85	0	85	0	87	-2	85	0	84	1	89	-4
UO3	Develop NEPA Compliance Plan	6904.009	86	86	0	103	-17	56	30	65	21	96	-10	79	7
300-M	Training of Personnel	6904.028	87	87	0	86	1	86	1	103	-16	72	15	69	18
Tritium	Training of Personnel	6904.143	88	88	0	90	-2	89	-1	106	-18	76	12	72	16
284-F	Asbestos Abatement/Removal	6904.053	89	89	0	71	18	103	-14	100	-11	82	7	90	-1
184-C	Asbestos Abatement/Removal	6901.013	90	90	0	72	18	104	-14	101	-11	83	7	91	-1
F-Canyon	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.046	91	91	0	91	0	94	-3	90	1	90	1	93	-2
HB-Line	Develop Training Plan	6904.110	92	92	0	92	0	96	-4	95	-3	92	0	88	4
235-F	Structural Studies	6904.093	93	93	0	74	19	106	-13	104	-11	88	5	92	1
Tritium	Document Facility Conditions & Baseline Operating & Mainten.	6904.134	94	94	0	87	7	98	-4	91	3	93	1	95	-1
Tritium	Characterization Plan Development	6904.135	95	95	0	88	7	99	-4	92	3	94	1	96	-1
F-Canyon	Develop Plan for Maintenance Activities Necessary for Safety	6904.041	96	96	0	89	7	100	-4	93	3	95	1	97	-1
UO3	NEPA Studies Relative to UO3 storage	6904.001	97	97	0	106	-9	84	13	87	10	99	-2	98	-1
235-F	Develop NEPA Compliance Plan	6904.091	98	98	0	115	-17	79	19	86	12	103	-5	94	4
F-Canyon	Update Safety Documentation	6904.039	99	99	0	94	5	109	-10	109	-10	97	2	103	-4
F-Canyon	Develop NEPA Compliance Plan	6904.040	100	100	0	119	-19	85	15	89	11	106	-6	101	-1
H-Canyon	Develop Plan for Maintenance Activities Necessary for Safety	6904.124	101	101	0	95	6	112	-11	107	-6	100	1	106	-5
F B-Line	Develop NEPA Compliance Plan	6904.059	102	102	0	121	-19	88	14	96	6	109	-7	102	0
D-Area	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6903.001	103	103	0	114	-11	97	6	102	1	108	-5	100	3
235-F	Training of Personnel	6904.095	104	104	0	101	3	107	-3	119	-15	98	6	99	5
HB-Line	Develop NEPA Compliance Plan	6904.107	105	105	0	126	-21	90	15	98	7	114	-9	104	1
Tritium	Facility Content Inventory	6904.136	106	106	0	98	8	113	-7	108	-2	104	2	108	-2
H-Canyon	Develop Training Plan	6904.126	107	107	0	102	5	110	-3	110	-3	101	6	105	2
SRS	Coordinate Economic Development Activities	6900.006	108	108	0	157	-49	64	44	84	24	127	-19	119	-11

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case->	Base	Test # 7	Test # 8	Test # 9	Test # 10	Test # 11	Test # 12
Attribute Mnemonic	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Average:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Averaget Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
300-M	Facility Content Inventory	6904.021	82	80	2	86	-4	80	2	85	-3	81	1	88	-6
300-M	Characterization Plan Development	6904.020	83	81	2	87	-4	81	2	86	-3	82	1	89	-6
232-F	Deactivation	6904.083	84	88	-4	73	11	88	-4	82	2	84	0	80	4
F-Canyon	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.047	85	83	2	90	-5	83	2	81	4	89	-4	79	6
UO3	Develop NEPA Compliance Plan	6904.009	86	89	-3	79	7	89	-3	80	6	90	-4	83	3
300-M	Training of Personnel	6904.028	87	94	-7	69	18	94	-7	88	-1	85	2	90	-3
Tritium	Training of Personnel	6904.143	88	96	-8	72	16	96	-8	90	-2	88	0	91	-3
284-F	Asbestos Abatement/Removal	6904.053	89	85	4	91	-2	85	4	95	-6	86	3	84	5
184-C	Asbestos Abatement/Removal	6901.013	90	86	4	92	-2	86	4	96	-6	87	3	85	5
F-Canyon	Evaluate Options for Disposal/Storage of Hazardous Waste	6904.046	91	87	4	94	-3	87	4	87	4	93	-2	82	9
HB-Line	Develop Training Plan	6904.110	92	95	-3	88	4	95	-3	91	1	92	0	94	-2
235-F	Structural Studies	6904.093	93	93	0	93	0	93	0	98	-5	91	2	93	0
Tritium	Document Facility Conditions & Baseline Operating & Mainten.	6904.134	94	90	4	96	-2	90	4	92	2	94	0	95	-1
Tritium	Characterization Plan Development	6904.135	95	91	4	97	-2	91	4	93	2	95	0	96	-1
F-Canyon	Develop Plan for Maintenance Activities Necessary for Safety	6904.041	96	92	4	98	-2	92	4	94	2	96	0	97	-1
UO3	NEPA Studies Relative to UO3 storage	6904.001	97	97	0	99	-2	97	0	89	8	97	0	92	5
235-F	Develop NEPA Compliance Plan	6904.091	98	99	-1	95	3	99	-1	97	1	99	-1	99	-1
F-Canyon	Update Safety Documentation	6904.039	99	98	1	104	-5	98	1	101	-2	98	1	102	-3
F-Canyon	Develop NEPA Compliance Plan	6904.040	100	102	-2	101	-1	101	-1	99	1	100	0	100	0
H-Canyon	Develop Plan for Maintenance Activities Necessary for Safety	6904.124	101	100	1	107	-6	100	1	103	-2	102	-1	107	-6
F B-Line	Develop NEPA Compliance Plan	6904.059	102	104	-2	103	-1	104	-2	100	2	104	-2	103	-1
D-Area	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6903.001	103	109	-6	108	-5	102	1	109	-6	101	2	101	2
235-F	Training of Personnel	6904.095	104	113	-9	100	4	111	-7	107	-3	103	1	111	-7
HB-Line	Develop NEPA Compliance Plan	6904.107	105	106	-1	105	0	106	-1	102	3	108	-3	105	0
Tritium	Facility Content Inventory	6904.136	106	103	3	110	-4	103	3	105	1	106	0	109	-3
H-Canyon	Develop Training Plan	6904.126	107	105	2	106	1	105	2	108	-1	105	2	112	-5
SRS	Coordinate Economic Development Activities	6900.006	108	101	7	89	19	119	-11	104	4	111	-3	98	10

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case->	Base	Test # 1	Test # 2	Test # 3	Test # 4	Test # 5	Test # 6
Attribute Mnemonic	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSale	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base:	44	0	28	44	24	18	18
Most Negative Shift in Priority No. from Base:	-49	0	-49	-25	-18	-19	-14
Average Positive Shift in Priority No. from Base:	8%	0%	14%	22%	12%	9%	9%
Average Negative Shift in Priority No. from Base:	-8%	0%	-25%	-13%	-9%	-10%	-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
100-L	Continue Reactor Cd Rod Program Removal, Fab Cask, Storage	6905.001	109	109	0	127	-18	101	8	97	12	124	-15	112	-3
UC3	Engineering Evaluations of Methods to Stabilize Highly Contaminated	6904.015	110	110	0	113	-3	108	2	118	-8	105	5	110	0
HB-Line	Characterization Plan Development	6904.103	111	111	0	104	7	117	-6	111	0	112	-1	115	-4
SRS	Determine Requirements for NEPA Documentation	6900.002	112	112	0	128	-16	102	10	99	13	125	-13	114	-2
100-C	Continue Reactor Asbestos Program (Contain & Removal)	6901.003	113	113	0	97	16	125	-12	121	-8	102	11	113	0
235-F	Characterization Plan Development	6904.087	114	114	0	105	9	118	-4	112	2	113	1	116	-2
HB-Line	Deactivation	6904.115	115	115	0	118	-3	111	4	120	-5	107	8	107	8
235-F	Document Facility Conditions & Baseline Operating & Maintenance	6904.086	116	116	0	108	8	119	-3	115	1	115	1	117	-1
HB-Line	Document Facility Conditions & Baseline Operating & Maintenance	6904.102	117	117	0	109	8	121	-4	116	1	117	0	118	-1
300-M	Document Facility Conditions & Baseline Operating & Maintenance	6904.019	118	118	0	110	8	123	-5	117	1	118	0	120	-2
100-P	Continue Reactor Cd Rod Program Removal, Fab Cask, Storage	6907.001	119	119	0	135	-16	105	14	105	14	132	-13	121	-2
300-M	Structural Studies	6904.026	120	120	0	100	20	130	-10	124	-4	110	10	122	-2
HB-Line	Training of Personnel	6904.111	121	121	0	117	4	122	-1	134	-13	111	10	111	10
HB-Line	Structural Studies	6904.109	122	122	0	107	15	132	-10	130	-8	116	6	127	-5
UC3	D&D Planning with Supporting Engineering Studies	6904.013	123	123	0	131	-8	116	7	125	-2	119	4	109	14
F-Canyon	Develop Training Plan	6904.043	124	124	0	120	4	124	0	123	1	120	4	123	1
100-P	Maintain Regulatory Permits	6907.006	125	125	0	133	-8	114	11	113	12	134	-9	125	0
100-C	Maintain Regulatory Permits	6901.006	126	126	0	134	-8	115	11	114	12	135	-9	126	0
H-Canyon	Characterization Plan Development	6904.119	127	127	0	116	11	129	-2	122	5	126	1	130	-3
Tritium	Deactivation	6904.147	128	128	0	136	-8	120	8	133	-5	122	6	124	4
F B-Line	Develop Training Plan	6904.062	129	129	0	130	-1	128	1	131	-2	128	1	128	1
Tritium	Structural Studies	6904.141	130	130	0	112	18	144	-14	136	-6	123	7	134	-4
300-M	Surveillance & Maintenance (S&M)	6904.034	131	131	0	124	7	134	-3	128	3	137	-6	135	-4
HB-Line	Facility Content Inventory	6904.104	132	132	0	125	7	135	-3	129	3	138	-6	136	-4
UC3	Construct New Storage Facility (Capital)	6904.016	133	133	0	141	-8	127	6	126	7	140	-7	133	0
300-M	Deactivation	6904.032	134	134	0	146	-12	126	8	135	-1	129	5	129	5
235-F	Facility Content Inventory	6904.088	135	135	0	129	6	138	-3	132	3	139	-4	138	-3

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case-> Attribute Mnemonic	Base Wt.	Test # 7 Rel Wt.	Test # 8 Rel Wt.	Test # 9 Rel Wt.	Test # 10 Rel Wt.	Test # 11 Rel Wt.	Test # 12 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Average:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Average Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
100-L	Continue Reactor Cd Rod Program Removal, Fab Cask, Storag	6905.001	109	107	2	113	-4	107	2	115	-6	109	0	104	5
UC3	Engineering Evaluations of Methods to Stabilize Highly Conta	6904.015	110	114	-4	111	-1	112	-2	106	4	115	-5	106	4
HB-Line	Characterization Plan Development	6904.103	111	108	3	115	-4	108	3	110	1	112	-1	115	-4
SFS	Determine Requirements for NEPA Documentation	6900.002	112	110	2	102	10	120	-8	120	-8	107	5	114	-2
100-C	Continue Reactor Asbestos Program (Contain & Removal)	6901.003	113	111	2	114	-1	109	4	116	-3	110	3	108	5
235-F	Characterization Plan Development	6904.087	114	112	2	116	-2	110	4	111	3	113	1	116	-2
HB-Line	Deactivation	6904.115	115	120	-5	109	6	118	-3	112	3	116	-1	113	2
235-F	Document Facility Conditions & Baseline Operating & Mainten.	6904.086	116	115	1	117	-1	113	3	113	3	114	2	117	-1
HB-Line	Document Facility Conditions & Baseline Operating & Mainten.	6904.102	117	116	1	118	-1	114	3	114	3	118	-1	120	-3
300-M	Document Facility Conditions & Baseline Operating & Mainten.	6904.019	118	117	1	119	-1	115	3	117	1	120	-2	121	-3
100-P	Continue Reactor Cd Rod Program Removal, Fab Cask, Storag	6907.001	119	118	1	120	-1	116	3	119	0	117	2	110	9
300-M	Structural Studies	6904.026	120	119	1	121	-1	117	3	121	-1	119	1	122	-2
HB-Line	Training of Personnel	6904.111	121	126	-5	112	9	127	-6	122	-1	124	-3	126	-5
HB-Line	Structural Studies	6904.109	122	121	1	127	-5	121	1	125	-3	123	-1	124	-2
UC3	D&D Planning with Supporting Engineering Studies	6904.013	123	127	-4	124	-1	122	1	118	5	126	-3	123	0
F-Canyon	Develop Training Plan	6904.043	124	125	-1	122	2	126	-2	123	1	125	-1	127	-3
100-P	Maintain Regulatory Permits	6907.006	125	122	3	125	0	123	2	127	-2	121	4	118	7
100-C	Maintain Regulatory Permits	6901.006	126	123	3	126	0	124	2	128	-2	122	4	119	7
H-Canyon	Characterization Plan Development	6904.119	127	124	3	130	-3	125	2	124	3	127	0	128	-1
Tritium	Deactivation	6904.147	128	131	-3	123	5	131	-3	126	2	128	0	125	3
F B-Line	Develop Training Plan	6904.062	129	132	-3	128	1	132	-3	129	0	130	-1	132	-3
Tritium	Structural Studies	6904.141	130	128	2	134	-4	128	2	134	-4	129	1	131	-1
300-M	Surveillance & Maintenance (S&M)	6904.034	131	129	2	135	-4	129	2	130	1	132	-1	134	-3
HB-Line	Facility Content Inventory	6904.104	132	130	2	136	-4	130	2	131	1	133	-1	135	-3
UC3	Construct New Storage Facility (Capital)	6904.016	133	135	-2	133	0	134	-1	135	-2	131	2	129	4
300-M	Deactivation	6904.032	134	137	-3	129	5	136	-2	132	2	134	0	130	4
235-F	Facility Content Inventory	6904.088	135	133	2	138	-3	133	2	133	2	135	0	137	-2

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 1 Rel Wt.	Test # 2 Rel Wt.	Test # 3 Rel Wt.	Test # 4 Rel Wt.	Test # 5 Rel Wt.	Test # 6 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base:	44	0	28	44	24	18	18
Most Negative Shift in Priority No. from Base:	-49	0	-49	-25	-18	-19	-14
Average Positive Shift in Priority No. from Base:	8%	0%	14%	22%	12%	9%	9%
Average Negative Shift in Priority No. from Base:	-8%	0%	-25%	-13%	-9%	-10%	-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
D-Area	Continue Reactor Asbestos Program (Contain & Removal)	6903.002	136	136	0	122	14	148	-12	140	-4	131	5	139	-3
F-Canyon	Training of Personnel	6904.044	137	137	0	143	-6	136	1	146	-9	130	7	131	6
H-Canyon	Structural Studies	6904.125	138	138	0	123	15	151	-13	143	-5	136	2	140	-2
SFS	Determine Requirements for Interim Safety Basis	6900.001	139	139	0	111	28	164	-25	157	-18	121	18	153	-14
H-Canyon	Training of Personnel	6904.127	140	140	0	144	-4	137	3	147	-7	133	7	132	8
D-Area	Maintain Regulatory Permits	6903.004	141	141	0	150	-9	131	10	127	14	152	-11	141	0
H-Canyon	Facility Content Inventory	6904.120	142	142	0	137	5	147	-5	137	5	146	-4	142	0
F B-Line	Training of Personnel	6904.063	143	143	0	149	-6	146	-3	153	-10	141	2	137	6
F-Canyon	Structural Studies	6904.042	144	144	0	132	12	155	-11	148	-4	144	0	148	-4
F-Canyon	Characterization Plan Development	6904.036	145	145	0	147	-2	150	-5	139	6	151	-6	151	-6
F B-Line	Characterization Plan Development	6904.055	146	146	0	148	-2	154	-8	145	1	153	-7	157	-11
100-P	Update Safety Hazards & Safety Analysis Reviews	6907.007	147	147	0	138	9	158	-11	160	-13	142	5	154	-7
100-C	Update Safety Hazards & Safety Analysis Reviews	6901.007	148	148	0	139	9	159	-11	161	-13	143	5	155	-7
F B-Line	Deactivation	6904.067	149	149	0	158	-9	142	7	149	0	149	0	143	6
H-Canyon	Deactivation	6904.131	150	150	0	159	-9	143	7	150	0	150	0	144	6
100-R	Maintain Regulatory Permits	6902.005	151	151	0	162	-11	139	12	138	13	156	-5	152	-1
100-L	Update Safety Hazards & Safety Analysis Reviews	6905.007	152	152	0	140	12	161	-9	162	-10	145	7	156	-4
F B-Line	Structural Studies	6904.061	153	153	0	142	11	163	-10	156	-3	148	5	158	-5
100-P	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6907.002	154	154	0	165	-11	140	14	141	13	160	-6	145	9
100-C	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6901.002	155	155	0	166	-11	141	14	142	13	161	-6	146	9
100-R	Update Safety Hazards & Safety Analysis Reviews	6902.006	156	156	0	145	11	166	-10	163	-7	147	9	159	-3
100-L	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6905.002	157	157	0	167	-10	145	12	144	13	163	-6	147	10
H-Canyon	Document Facility Conditions & Baseline Operating & Mainten.	6904.118	158	158	0	151	7	156	2	151	7	157	1	160	-2
F B-Line	Document Facility Conditions & Baseline Operating & Mainten.	6904.054	159	159	0	152	7	157	2	152	7	159	0	161	-2
D-Area	Flare Tower Pipe Removal Activities	6903.007	160	160	0	168	-8	149	11	158	2	154	6	150	10
F-Canyon	Facility Content Inventory	6904.037	161	161	0	155	6	160	1	154	7	164	-3	162	-1
F B-Line	Facility Content Inventory	6904.056	162	162	0	156	6	165	-3	155	7	165	-3	164	-2

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 7 Rel Wt.	Test # 8 Rel Wt.	Test # 9 Rel Wt.	Test # 10 Rel Wt.	Test # 11 Rel Wt.	Test # 12 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Average:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Average Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
D-Area	Continue Reactor Asbestos Program (Contain & Removal)	6903.002	136	136	0	139	-3	135	1	138	-2	136	0	133	3
F-Canyon	Training of Personnel	6904.044	137	141	-4	131	6	141	-4	137	0	139	-2	140	-3
H-Canyon	Structural Studies	6904.125	138	138	0	141	-3	138	0	141	-3	137	1	139	-1
SFS	Determine Requirements for Interim Safety Basis	6900.001	139	134	5	145	-6	137	2	136	3	142	-3	138	1
H-Canyon	Training of Personnel	6904.127	140	143	-3	132	8	143	-3	139	1	140	0	141	-1
D-Area	Maintain Regulatory Permits	6903.004	141	140	1	142	-1	140	1	143	-2	138	3	136	5
H-Canyon	Facility Content Inventory	6904.120	142	139	3	147	-5	139	3	140	2	141	1	142	0
F B-Line	Training of Personnel	6904.063	143	150	-7	137	6	147	-4	142	1	144	-1	147	-4
F-Canyon	Structural Studies	6904.042	144	142	2	153	-9	142	2	147	-3	143	1	146	-2
F-Canyon	Characterization Plan Development	6904.036	145	144	1	155	-10	144	1	144	1	146	-1	148	-3
F B-Line	Characterization Plan Development	6904.055	146	145	1	157	-11	145	1	148	-2	151	-5	152	-6
100-P	Update Safety Hazards & Safety Analysis Reviews	6907.007	147	146	1	143	4	153	-6	149	-2	147	0	154	-7
100-C	Update Safety Hazards & Safety Analysis Reviews	6901.007	148	147	1	144	4	155	-7	150	-2	148	0	155	-7
F B-Line	Deactivation	6904.067	149	153	-4	148	1	151	-2	145	4	152	-3	144	5
H-Canyon	Deactivation	6904.131	150	154	-4	149	1	152	-2	146	4	153	-3	145	5
100-R	Maintain Regulatory Permits	6902.005	151	149	2	156	-5	146	5	153	-2	145	6	143	8
100-L	Update Safety Hazards & Safety Analysis Reviews	6905.007	152	148	4	146	6	157	-5	151	1	149	3	156	-4
F B-Line	Structural Studies	6904.061	153	151	2	158	-5	148	5	152	1	150	3	153	0
100-P	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6907.002	154	158	-4	159	-5	149	5	156	-2	154	0	149	5
100-C	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6901.002	155	159	-4	160	-5	150	5	157	-2	155	0	150	5
100-R	Update Safety Hazards & Safety Analysis Reviews	6902.006	156	152	4	152	4	160	-4	158	-2	156	0	158	-2
100-L	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6905.002	157	161	-4	161	-4	154	3	159	-2	157	0	151	6
H-Canyon	Document Facility Conditions & Baseline Operating & Mainten	6904.118	158	155	3	162	-4	156	2	154	4	158	0	159	-1
F B-Line	Document Facility Conditions & Baseline Operating & Mainten	6904.054	159	156	3	163	-4	158	1	155	4	159	0	160	-1
D-Area	Flare Tower Pipe Removal Activities	6903.007	160	164	-4	140	20	167	-7	164	-4	160	0	166	-6
F-Canyon	Facility Content Inventory	6904.037	161	157	4	164	-3	159	2	160	1	161	0	163	-2
F B-Line	Facility Content Inventory	6904.056	162	160	2	165	-3	161	1	161	1	162	0	164	-2

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case->	Base	Test # 1	Test # 2	Test # 3	Test # 4	Test # 5	Test # 6
Attribute Mnemonic	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base:	44	0	28	44	24	18	18
Most Negative Shift in Priority No. from Base:	-49	0	-49	-25	-18	-19	-14
Average Positive Shift in Priority No. from Base:	8%	0%	14%	22%	12%	9%	9%
Average Negative Shift in Priority No. from Base:	-8%	0%	-25%	-13%	-9%	-10%	-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
100-P	Continue Reactor Asbestos Program (Contain & Removal)	6907.003	163	163	0	153	10	169	-6	165	-2	158	5	165	-2
100-L	Continue Reactor Asbestos Program (Contain & Removal)	6905.003	164	164	0	154	10	170	-6	167	-3	162	5	167	-3
F-Canyon	Document Facility Conditions & Baseline Operating & Mainten.	6904.035	165	165	0	164	1	168	-3	159	6	169	-4	168	-3
100-R	Continue Reactor Asbestos Program (Contain & Removal)	6902.002	166	166	0	161	5	172	-6	169	-3	166	0	169	-3
SPS	D&D Options Analysis	6900.008	167	167	0	183	-16	133	34	166	1	168	-1	149	18
100-C	Begin Program to Dispose of Process Water & Disassembly B	6901.010	168	168	0	160	8	175	-7	176	-8	155	13	163	5
F-Canyon	Deactivation	6904.048	169	169	0	170	-1	162	7	168	1	170	-1	166	3
D-Area	Update Safety Hazards & Safety Analysis Reviews	6903.005	170	170	0	163	7	177	-7	173	-3	167	3	173	-3
100-C	Continue Disassembly Basin Segment Sampling & Removal F	6901.005	171	171	0	169	2	173	-2	172	-1	171	0	171	0
100-R	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6902.001	172	172	0	172	0	167	5	164	8	177	-5	170	2
100-L	Initial Characterization Program for Radiological & Chemical H	6905.004	173	173	0	173	0	171	2	174	-1	174	-1	172	1
SPS	Enhance Stakeholder Involvement	6900.005	174	174	0	194	-20	152	22	181	-7	172	2	180	-6
SPS	Enhance Facility Data Base to Include all Transition Related D	6900.004	175	175	0	195	-20	153	22	182	-7	173	2	181	-6
235-F	Deactivation	6904.099	176	176	0	174	2	174	2	175	1	175	1	174	2
100-L	Continue Disassembly Basin Segment Sampling & Removal F	6905.005	177	177	0	171	6	180	-3	178	-1	176	1	176	1
100-C	Initial Characterization Program for Radiological & Chemical H	6901.004	178	178	0	175	3	176	2	177	1	178	0	175	3
100-L	Maintain Regulatory Permits	6905.006	179	179	0	177	2	178	1	171	8	182	-3	179	0
100-C	Continue Reactor Cd Rod Program Removal, Fab Cask, Storag	6901.001	180	180	0	184	-4	179	1	170	10	188	-8	186	-6
100-R	Maintenance of Facility Systems for Safety, Habitability & S	6902.008	181	181	0	176	5	182	-1	179	2	181	0	182	-1
D-Area	Initial Characterization Program for Radiological & Chemical H	6903.003	182	182	0	179	3	181	1	180	2	179	3	177	5
D-Area	Perform Engineering Studies for Equipment Reuse and to Mini	6903.006	183	183	0	180	3	183	0	185	-2	180	3	178	5
100-P	Perform Engineering Studies for Equipment Reuse and to Mini	6907.008	184	184	0	181	3	185	-1	188	-4	184	0	183	1
100-C	Perform Engineering Studies for Equipment Reuse and to Mini	6901.008	185	185	0	182	3	186	-1	189	-4	185	0	184	1
100-L	Perform Engineering Studies for Equipment Reuse and to Mini	6905.008	186	186	0	185	1	187	-1	190	-4	186	0	185	1
100-P	Initial Characterization Program for Radiological & Chemical H	6907.004	187	187	0	191	-4	184	3	186	1	187	0	187	0
100-R	Begin Program to Dispose of Process Water & Disassembly B	6902.009	188	188	0	178	10	195	-7	192	-4	183	5	188	0
100-P	Maintenance of Facility Systems for Safety, Habitability & S	6907.009	189	189	0	186	3	188	1	183	6	189	0	191	-2

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case->	Base	Test # 7	Test # 8	Test # 9	Test # 10	Test # 11	Test # 12
Attribute Mnemonic	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Average:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Average Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
100-P	Continue Reactor Asbestos Program (Contain & Removal)	6907.003	163	162	1	167	-4	162	1	166	-3	163	0	161	2
100-L	Continue Reactor Asbestos Program (Contain & Removal)	6905.003	164	163	1	169	-5	163	1	168	-4	164	0	162	2
F-Canyon	Document Facility Conditions & Baseline Operating & Mainten.	6904.035	165	165	0	170	-5	164	1	165	0	166	-1	169	-4
100-R	Continue Reactor Asbestos Program (Contain & Removal)	6902.002	166	166	0	171	-5	166	0	172	-6	165	1	165	1
SFS	D&D Options Analysis	6900.008	167	173	-6	154	13	172	-5	171	-4	167	0	157	10
100-C	Begin Program to Dispose of Process Water & Disassembly B	6901.010	168	168	0	172	-4	165	3	167	1	168	0	167	1
F-Canyon	Deactivation	6904.048	169	169	0	168	1	169	0	170	-1	170	-1	168	1
D-Area	Update Safety Hazards & Safety Analysis Reviews	6903.005	170	167	3	166	4	170	0	173	-3	169	1	174	-4
100-C	Continue Disassembly Basin Segment Sampling & Removal F	6901.005	171	170	1	174	-3	168	3	169	2	172	-1	173	-2
100-R	Proceed with Reactor Lead Mgt. Program (Characterize, Reus	6902.001	172	174	-2	175	-3	171	1	176	-4	171	1	172	0
100-L	Initial Characterization Program for Radiological & Chemical H	6905.004	173	176	-3	176	-3	173	0	174	-1	174	-1	176	-3
SFS	Enhance Stakeholder Involvement	6900.005	174	171	3	150	24	183	-9	162	12	179	-5	170	4
SFS	Enhance Facility Data Base to Include all Transition Related D	6900.004	175	172	3	151	24	184	-9	163	12	180	-5	171	4
235-F	Deactivation	6904.099	176	175	1	173	3	175	1	177	-1	173	3	175	1
100-L	Continue Disassembly Basin Segment Sampling & Removal F	6905.005	177	177	0	178	-1	174	3	175	2	177	0	177	0
100-C	Initial Characterization Program for Radiological & Chemical H	6901.004	178	179	-1	177	1	176	2	178	0	176	2	179	-1
100-L	Maintain Regulatory Permits	6905.006	179	178	1	179	0	177	2	180	-1	175	4	178	1
100-C	Continue Reactor Cd Rod Program Removal, Fab Cask, Storag	6901.001	180	180	0	182	-2	178	2	182	-2	178	2	180	0
100-R	Maintenance of Facility Systems for Safety, Habitability & S	6902.008	181	181	0	180	1	180	1	181	0	181	0	182	-1
D-Area	Initial Characterization Program for Radiological & Chemical H	6903.003	182	182	0	181	1	179	3	179	3	182	0	181	1
D-Area	Perform Engineering Studies for Equipment Reuse and to Mini	6903.006	183	183	0	183	0	181	2	183	0	183	0	183	0
100-P	Perform Engineering Studies for Equipment Reuse and to Mini	6907.008	184	188	-4	184	0	185	-1	185	-1	184	0	184	0
100-C	Perform Engineering Studies for Equipment Reuse and to Mini	6901.008	185	189	-4	185	0	186	-1	186	-1	185	0	185	0
100-L	Perform Engineering Studies for Equipment Reuse and to Mini	6905.008	186	191	-5	186	0	187	-1	188	-2	186	0	187	-1
100-P	Initial Characterization Program for Radiological & Chemical H	6907.004	187	190	-3	187	0	188	-1	184	3	188	-1	188	-1
100-R	Begin Program to Dispose of Process Water & Disassembly B	6902.009	188	186	2	192	-4	182	6	187	1	187	1	186	2
100-P	Maintenance of Facility Systems for Safety, Habitability & S	6907.009	189	184	5	188	1	189	0	190	-1	189	0	189	0

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:

199

Case->	Base	Test # 1	Test # 2	Test # 3	Test # 4	Test # 5	Test # 6
Attribute Mnemonic	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.	Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	40.0	10.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	18.0	4.5	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	10.0	2.5
P/R	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	3.0	3.0	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	3.0	3.0

Average

Most Positive Shift in Priority No. from Base:	44	0	28	44	24	18	18
Most Negative Shift in Priority No. from Base:	-49	0	-49	-25	-18	-19	-14
Average Positive Shift in Priority No. from Base:	8%	0%	14%	22%	12%	9%	9%
Average Negative Shift in Priority No. from Base:	-8%	0%	-25%	-13%	-9%	-10%	-7%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	4	-3	1	0	1	0	1	0	1	0
100-C	Maintenance of Facility Systems for Safety, Habitability & S&S	6901.009	190	190	0	187	3	189	1	184	6	190	0	192	-2
100-L	Maintenance of Facility Systems for Safety, Habitability & S&S	6905.009	191	191	0	188	3	191	0	187	4	192	-1	193	-2
100-P	Continue Disassembly Basin Segment Sampling & Removal F	6907.005	192	192	0	192	0	194	-2	193	-1	191	1	194	-2
100-R	Initial Characterization Program for Radiological & Chemical H	6902.003	193	193	0	197	-4	190	3	191	2	196	-3	189	4
100-R	Perform Engineering Studies for Equipment Reuse and to Minimize	6902.007	194	194	0	196	-2	193	1	195	-1	194	0	190	4
100-R	Continue Disassembly Basin Segment Sampling & Removal F	6902.004	195	195	0	193	2	196	-1	194	1	197	-2	195	0
100-P	Begin Program to Dispose of Process Water & Disassembly Basin	6907.010	196	196	0	189	7	197	-1	196	0	193	3	196	0
100-L	Begin Program to Dispose of Process Water & Disassembly Basin	6905.010	197	197	0	190	7	198	-1	197	0	195	2	197	0
SRS	SRS Transition Program Integration	6900.007	198	198	0	198	0	192	6	198	0	198	0	198	0
SRS	Engineering Studies	6900.003	199	199	0	199	0	199	0	199	0	199	0	199	0

Attachment D-1

Transition Priority Sensitivity Evaluation

Note:

Base case data from draft Prioritization
Development computer runs on 7/27/93

No. Activities:
199

Case-> Attribute Mnemonic	Base Rel Wt.	Test # 7 Rel Wt.	Test # 8 Rel Wt.	Test # 9 Rel Wt.	Test # 10 Rel Wt.	Test # 11 Rel Wt.	Test # 12 Rel Wt.
N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PSafe	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Regs	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Stwd	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P/R	5.0	10.0	2.5	5.0	5.0	5.0	5.0
Other	3.0	3.0	3.0	6.0	1.5	3.0	3.0
C.Eff	3.0	3.0	3.0	3.0	3.0	6.0	1.5

Average:

Most Positive Shift in Priority No. from Base:	44	7	24	6	12	6	10
Most Negative Shift in Priority No. from Base:	-49	-12	-11	-11	-8	-5	-12
Average Positive Shift in Priority No. from Base:	8%	4%	12%	3%	6%	3%	5%
Average Negative Shift in Priority No. from Base:	-8%	-6%	-6%	-6%	-4%	-3%	-6%

Area	Transition Activity:	Trans. ID.	Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri	Pri	Δ Pri
184-C	Transition Planning	6901.012	1	1	0	1	0	1	0	1	0	1	0	1	0
100-C	Maintenance of Facility Systems for Safety, Habitability & S&S	6901.009	190	185	5	189	1	190	0	191	-1	190	0	190	0
100-L	Maintenance of Facility Systems for Safety, Habitability & S&S	6905.009	191	187	4	190	1	191	0	192	-1	191	0	191	0
100-P	Continue Disassembly Basin Segment Sampling & Removal	6907.005	192	192	0	195	-3	192	0	189	3	194	-2	192	0
100-R	Initial Characterization Program for Radiological & Chemical Hazards	6902.003	193	194	-1	193	0	193	0	193	0	192	1	193	0
100-R	Perform Engineering Studies for Equipment Reuse and to Minimize Waste	6902.007	194	196	-2	194	0	197	-3	195	-1	193	1	195	-1
100-R	Continue Disassembly Basin Segment Sampling & Removal	6902.004	195	193	2	196	-1	194	1	194	1	195	0	194	1
100-P	Begin Program to Dispose of Process Water & Disassembly Basin Segment Sampling	6907.010	196	195	1	197	-1	195	1	196	0	196	0	196	0
100-L	Begin Program to Dispose of Process Water & Disassembly Basin Segment Sampling	6905.010	197	197	0	198	-1	196	1	197	0	197	0	197	0
SFS	SRS Transition Program Integration	6900.007	198	198	0	191	7	198	0	198	0	198	0	198	0
SFS	Engineering Studies	6900.003	199	199	0	199	0	199	0	199	0	199	0	199	0

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APPENDIX E

Macro Program Details

General Discussion

A Microsoft® Excel program labeled "A Macro-Trans. Pri." has been developed to assist in the routine manipulation of the spreadsheets used for developing priorities for transition activities. Most calculations used in the prioritization are performed on the spreadsheets. The macro's only calculations are:

- conversion of \$K to \$M when cost data are copied from the "Transition Planning" spreadsheet to the "Transition Priority Development" spreadsheet
- counting the number of activities
- determination of the bold bottom border of the "cut line" on selected printout options, and
- calculation of the printer "enlargement" for some printouts.

Except for the calculations discussed above, the macro's functions are to automatically perform data copying, sorting and printing that may also be done be conventional (manual) spreadsheet manipulations and to verify, where practical, selected manually entered data.

Running the Macro Options

The macro program is structured into 21 sub-programs called options ("command" macros) and several "function" macros (executed by a "command" macro). The options are listed on Table E-1. Three methods

are available for running the options. They are:

- selecting the macro using the "Run" feature of the Excel "Macro" menu bar item,
- keying: [option][letter], where *letter* is a lower case letter listed in the Opt** column on attachment E-1, and
- entering the desired option sequence in the Auto* column of Attachment E-1 and keying: [option][

Option Details

The macro sub-program options are discussed in detail in this section. Microsoft® Excel command macros can be executed (run) with a single letter identifier call (see above) or from the "macro" button in the menu bar at the top of the Excel screen. The letter identifier may be in either upper or lower case. The letter identifiers chosen for the transition prioritization system are all lower case and, where possible, syntactically relate to the function being performed. Each of the macro sub-programs (options) is discussed below.

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Table E-1

Macro Options List

Macro Options		
Auto*	Opt**	Use:
	a	Put Management Assigned Flag (with Cell Value) Back into Cell
1	b	Bulld (Copy) Activity Data from ADS Spreadsheet
3	c	Sort by the [Cost + Benefit Ratio] Column
	d	Put "Defer" Flag into Selected Cell
5	f	Substitute FY Costs
	g	General Purpose Sort (Based on Prompt)
8	h	Print Attribute Table (Appendix A)
	i	Bulld & Print Input data sheets
	j	Run a Series of Sorts for Sensitivity Studies
6	l	Print "Limited" Priority Table (Appendix D) Omitting Zero Cost Lines
	m	Put "Must Do" Flag into Selected Cell
	n	Renumber Activity ID's on ADS Spreadsheet
	o	Find this Macro Options field
4	p	Print Priority Table (Appendix C)
	r	Run a series of Options in the Sequence in the [Auto] Column at Left
7	s	Print Summary Of Priority Calculations Table 1)
2	t	Set Pri Spreadsheet to Calculate on Total Cost
	v	Validate Some Scores & Precedenced in ADS Spreadsheet
	w	Sort by the [Weighted Score] Column
	x	Edit to Insert/Remove Lines (Rows) Of Data
	z	Paste Special (Values Only) in Selected Cell

* Enter Automatic Run Sequence (i.e.1,2,3) for Option r {Except for shaded}

** Call Option with [Option][Command][Opt]

A Macro-Trans. Pri.

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Options to support the "Transition Planning Worksheet" spreadsheet:

- **Option "n"**. This option assigns transition ID numbers based on the (DOE supplied) four digit Activity Data Sheet (ADS) numbers. *Caution. Use of this option may cause previously assigned precedence numbers to be invalid.*
- **Option "l"**. This option prints an activity Input data sheet form (see Figure B-3 above). The user will be prompted to select the printout desired as:
 - ✓ a single blank (no data entered) sheet
 - ✓ a set of data within an inclusive range of Transition ID numbers with the current activity data
 - ✓ a sheet for each transition activity with the current activity data shown.
- **Option "v"**. This option performs the following validity checks on the spreadsheet:
 - ✓ verifies that an assigned precedence identification has a corresponding transition activity identification number
 - ✓ verifies that the score assigned to the "Reg" attribute is within a "reasonable" range as shown on the option "h" printout
 - ✓ verifies that the score assigned to the "Other" attribute is within a "reasonable" range as shown on the option "h" printout
 - ✓ verifies that the assigned precedence identification

does not refer to a "Deferred" activity

- ✓ verifies that the assigned precedence identification does not refer to a zero total cost activity (a zero total cost activity will not be copied to the "Transition Priority Development" spreadsheet by option "b").

- **Option "b"**. This option copies selected transition activity data from the "Transition Planning Worksheet" spreadsheet to the "Transition Priority Development" spreadsheet. Specifics related to this copying are:
 - ✓ data for activities with zero total estimated costs are *not* copied, and
 - ✓ the total estimated costs for the activities and one fiscal year's cost are copied. The selection of the fiscal year is made at the "FY for Option "f" =" cell (currently at cell address \$AC\$24) on the "Transition Priority Development" spreadsheet (see Table E-2 below).

Options to sort the "Transition Priority Development" spreadsheet:

- **Option "c"**. This option sorts the spreadsheet based on the data in the [Cost+Benefit Ratio] column (column [17]) in ascending order. With this sort, activities with the lowest cost-benefit ratio will be moved to the top of the list (have the lowest priority number). The "interim" priority numbers (column [1]) are assigned on completion of the sort. This option also "stacks" activities flagged in the

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precedence column (column [7]). The "interim" priority numbers are re-assigned after the precedence requirements are met. *Note: the "Assig-nn" precedence assignments are based on the "interim" priority numbers.*

- **Option "w".** This option sorts the spreadsheet based on the data in the [Wtd. Score] column (column [14]) in descending order. With this sort, activities with the highest weighted score will be moved to the top of the list (have the lowest priority number). The "interim" priority numbers (column [1]) are assigned on completion of the sort. This option also "stacks" activities flagged in the precedence column (column [7]). The "interim" priority numbers are re-assigned after the precedence requirements are met. *Note: the "Assig-nn" precedence assignments are based on the "interim" priority numbers.*
- **Option "g".** This is a general purpose sort option that prompts the user to select which columns to use as the sort basis. Currently the available sort selections are:
 - ✓ sort by the [Trans ID] column (column [4])
 - ✓ sort by the [Driver Code] column (column [3])
 - ✓ sort by the [Input Seq] column. The [Input Seq] column is shown on the spreadsheet but not on the printouts.Option "g" sorts by the selected column in ascending order; does *not* "re-stack" activities flagged in

the precedence column; and does *not* re-assign priority numbers.

Options to print the "Transition Priority Development" and the "Priority Listing Summary" spreadsheets:

- **Option "p".** This option prints the "Transition Priority Development" spreadsheet after setting special title and heading data depending on the conditions used for the previous sort option. Option "p" causes "Appendix C" to be printed in the printout title.
- **Option "l".** This option prints a "limited" version of the "Transition Priority Development" spreadsheet. The differences between the option "p" and option "l" printouts are that option "l":
 - ✓ omits activities with zero cost estimates
 - ✓ renumbers the priority numbers (column [1]) to accommodate missing (zero cost) activities and changes the column [1] heading from [Inter. Pri.] (for "interim" priority) to [Calc. Pri]
 - ✓ causes "Appendix D" to be printed in the printout title.
- **Option "s".** This option prints the "Priority Listing Summary" spreadsheet. This spreadsheet lists the same activities and priority numbers as option "l" in a "less busy" format. Option "s" causes "Table 1" to be printed in the printout title.
- **Option "h".** This option prints the attribute and other global tables from the upper data fields of the "Transition Priority

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Development" spreadsheet for use as "Appendix A" of a routine transition prioritization report (see Appendix C above).

Options to support routine development of transition priorities

- **Option "t".** This option blanks the "FY Choice" cell (currently at cell address \$Z\$110, see Table E-2 below). When the "FY Choice" cell is blank, the "Transition Priority Development" spreadsheet will calculate cost-benefit ratios using total estimated activity costs.
- **Option "f".** This option copies the two-digit fiscal year number in the cell "FY for Option "f" =" (currently at address \$AC\$24) to the "FY Choice" cell (currently at address \$Z\$110, see Table E-2 below) on the "Transition Priority Development" spreadsheet. When the "FY Choice" cell contains the two-digit fiscal year number, the "Transition Priority Development" spreadsheet will calculate cost-benefit ratios using estimated activity costs for the fiscal year.
- **Option "o".** This option causes the macro to select and display the Macro Options List on the macro spreadsheet illustrated in Table E-1.
- **Option "r".** This option causes the macro to run a series of options in a sequence selected. The selection and the sequence are made in the "Auto" column field on the macro spreadsheet. Table E-1 contains an illustration of entries in the "Auto" column.

Options to support routine data entries on the spreadsheets

- **Option "a".** This option causes the character string contained in the "Management Priority Flag****" cell (see Table E-2 below) to be copied into the selected cell. The user would first select ("click on") the cell in the precedence column and key: [option][⌘][a]. Currently this would put "Assig-" in the selected cell.
- **Option "m".** This option causes the character string contained in the "Must Do Flag" cell (see Table E-2 below) to be copied into the selected cell. The user would first select ("click on") the cell in the precedence column and key: [option][⌘][m]. Currently this would put "Must Do" in the selected cell.
- **Option "d".** This option causes the character string contained in the "Defer Flag***" cell (see Table E-2 below) to be copied into the selected cell. The user would first select ("click on") the cell in the precedence column and key: [option][⌘][d]. Currently this would put "Defer" in the selected cell.
- **Option "v".** This option causes the character string contained in a previous "copied" string (Excel Edit-Copy or [⌘][c]) to be "pasted" (Excel "Paste Special-values only") at the currently selected cursor position in the selected cell. The user would first select the character string desired (for example a Transition ID number), key: [⌘][c] to copy

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the string, select the cell for pasting the string (for example, a cell in the procedure column) and key: [option][⌘][v]. In this example, the copied transition number is "pasted" into the precedence column data input without having to manually key in the entire character string.

- **Option "x".** This option causes the data rows to be deleted or blank data rows to be inserted in the "Transition Priority Development" spreadsheet. To use this option, the user must first enter a negative number (for deleting the row) or a positive number (for inserting blank row) in the "Flag" column of the spreadsheet. Multiple rows may be designated. The option is then run by keying: [option][⌘][x]. Option "x" was developed for use early in the development of the prioritization system and is expected to have little future use.

Option to support sensitivity analysis

- **Option "j".** This option causes the macro to run a series of calculations with varying attribute relative weights to permit evaluation of the sensitivity (how much the priorities "shift") with the change of the weights. The option is then run by keying: [option][⌘][j]. Option "j" uses a separate spreadsheet, the "Transition Priority Sensitivity Evaluation" spreadsheet, for accumulating and printing the calculation results in addition to the "Transition Priority Development" spreadsheet. When Option "j" is run, the macro will prompt the user to:

- ✓ select whether or not to print (option "p" type printout) each sort result
- ✓ select whether or not to print the "Transition Priority Sensitivity Evaluation" spreadsheet at the end of the tests.
- ✓ select sorting by the [Cost+Benefit Ratio] column or the [Wtd. Score] column.

When Option "j" is run, no precedence assignments are made. Appendix D above discusses results of using option "j".

Spreadsheet Conventions

The macro selectively *activates* appropriate spreadsheets for execution of program steps. A spreadsheet naming convention has been established for the macro to use. This naming convention is:

<u>Spreadsheet</u>	<u>String*</u>
The macro	Macro
"Transition Planning"	ADS
"Transition Priority Development"	Acty Pri
"Priority Listing Summary"	Print
"Transition Priority Sensitivity Evaluation"	Sens

- * Unique characters **string** in the spreadsheet name used by the Macintosh system "Finder". For example, the name of the "Transition Priority Development" spreadsheet used during development of the prioritization process is: Trans Acty Pri. Link.

DRAFT**Table E-2**

<u>Data Field As</u> <u>Identified on Spreadsheet</u>	<u>Name User by Excel</u>	<u>Current</u> <u>Cell Address</u>
<i>(Remarks are in italics below each entry as needed)</i>		
Code (Column Heading) <i>(Flag for cost estimate quality.</i>	Code	\$I\$70:\$I\$116
Cost Exponent for CBR = <i>(Self Explanatory)</i>	Cost_Exponent_for_CBR	\$AB\$108
Cost Units label (for column headings , etc.) = <i>(Currently set to: "(\$M)</i>	Cost_Units_label__ f_or_cotumn_headings__etc.	\$L\$16
"cut line" set at: <i>(Self Explanatory)</i>	Cut_Line__M	\$AB\$23
Defer Flag** <i>(Flag ("Defer") entered as needed in the precedence column)</i>	Defer_Flag	\$M\$23
None <i>(If this cell is blank, the spreadsheet calculates CBRs using the total cost data and the word "Total" appears in the cell as a spill-over from the column (cell) to it's left. Option "t" blanks this cell. Option "f" puts the two-digit fiscal year number in this cell.)</i>	FY_Choice	\$Z\$110
FY for Option "f" = <i>(Fiscal year selection for calculations)</i>	FY_for_Option__f	\$AC\$24
Management Priority Flag***: <i>(Flag ("Assig-") entered as needed in the precedence column)</i>	Management_Priority_Flag	\$M\$24
monic monic <i>(Attribute mnemonic used in table headings)</i>	\$I\$38:\$I\$51	
Mul. (Column Heading) <i>(Multiplier for cost estimate quality. Current values are: 1.0, 2.0, 3.0 corresponding to code flags: "h", "c", and "e")</i>	Mul.	\$J\$70:\$J\$116
Σ Cost Calc (y,n): <i>(Flag to have the Σ cost (Column [18]) calculated using the cost quality multiplier. Normally this is set to "n".)</i>	Mult_Test	\$L\$19
Must Do Flag*: <i>(Flag ("Must Do") entered as needed in the precedence column)</i>	Must_Do_Flag	\$M\$22
Pri Col Defer Flag <i>(Flag ("D") entered as needed beside the priority Number)</i>	Pri_Col_Defer_Flag	\$O\$23

DRAFT**Table E-2 (Continued)**

<u>Data Field As</u> <u>Identified on Spreadsheet</u>	<u>Name User by Excel</u>	<u>Current</u> <u>Cell Address</u>
Pri Col Error Flag: <i>(Flag ("E") entered as needed beside the priority Number)</i>	Pri_Col_Error_Flag	\$O\$21
Pri Col Management Priority Flag <i>(Flag ("A") entered as needed beside the priority Number)</i>	Pri_Col_Management_ Priority_Flag	\$O\$24
Pri Col Must Do Flag <i>(Flag ("M") entered as needed beside the priority Number)</i>	Pri_Col_Must_Do_Flag	\$O\$22
Pri Col Precedence Assig Flag: <i>(Flag ("P") entered as needed beside the priority Number)</i>	Pri_Col_Precedence_ Assig_Flag	\$O\$25
Stack "Must Do" at top of Priority Calc. (y,n): <i>(Flag (y,n) on whether to stack the activities flagged by "Must Do" in the Precedence column at the top and to stack the activities flagged by "Defer" in the Precedence column at the bottom of the priority list when Option "c" or "w" is run)</i>	Stack_Must_Do_at_top_ of_Priority_Calc._y_n	\$AC\$27
Use Mgt Override in Priority Calc. (y,n): <i>(Flag (y,n) on whether to stack the activities flagged by "Assig-nn" in the Precedence column at the at the "nn" priority in the priority list when Option "c" or "w" is run)</i>	Use_Mgt_Override_in_ Priority_Calc._y_n	\$AC\$26
Use Precedence Override in Priority Calc. (y,n): <i>(Flag (y,n) on whether to stack the activities flagged by an Activity I ID number in the Precedence column ahead if the Activity ID in the priority list when Option "c" of "w" is run)</i>	Use_Precedence_Override_ in_Priority_Calc._y_n	\$AC\$25
Wt. <i>(The attribute relative weight (corresponds to attribute mnemonic in cells \$I\$38:\$I\$51))</i>	Wt	\$J\$38:\$J\$51
Protect Worksheet (y/n): <i>(Flag on whether or not to write protect the "Transition Priority Development" spreadsheet cells after running the macro)</i>	y_n	\$Q\$17

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Several "global" parameters are shared by several spreadsheets and/or used extensively by the "Transition Priority Development" spreadsheet. These parameters, located in the top (above the printout headings) of the Transition Priority Development" spreadsheet are listed in Table E-1.

Macro Source Listing

Attachment E-1 is a source listing of the macro used for transition priority development. The attachment represents the current state of development of the macro.

Special Instructions and Precautions for using the "Transition Planning Worksheet" Spreadsheet

The "Transition Planning Worksheet" spreadsheet is formatted as a planning sheet for prioritization activities. The spreadsheet has, for each Activity Data Sheet (ADS) or facility subsets within an ADS, groupings of planned activities. Each ADS (or facility subset) has its own tabulation fields and summary cost rows. These data are not copied to the "Transition Priority Development" spreadsheet. If the user desires to change or re-arrange the summary fields, it should have no impact on the prioritization calculations if the constraints below are observed.

- Leave the "Title" column (column F) blank except for actual activity titles. The macro option "b"

transfers activity data to the "Transition Priority Development" spreadsheet only for non-blank "Title" column data.

- If rows of activity data are added, verify that the [6 Year Tot Cost] column (column K) has equations (zero data in the column is a problem indicator). Equations may be copied and pasted from an undisturbed cell.
- The automatic activity numbering (option "n") uses the four-digit ADS number in column B as the first four digits of the ADS number. Whenever a new ADS number is added, be sure that column F is blank. Note that on Figure B-2, the ADS title (shown in bold type) is in column D. The text "spills over into columns E and F which are blank.
- Two printouts are made from the "Transition Planning Worksheet" spreadsheet. They are the planning sheet (Figure B-2) and the input data sheet (Figure B3). The Excel "Page Setup" is different for each figure and must be manually changed when changing from one figure to another. The format for figure B-3 starts at cell \$BB\$1000. General instructions for "page setup" are listed beginning at cell \$BB\$991. Figure B-3 is printed automatically (option "i"). Before printing Figure B-2, the user must set the "Print Titles" and the "Print Area" using the "Options" button on the Excel Menu bar.

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2	Find Windows-Pri (Function Macro)
3	
4	=SET.VALUE(Temp_Option,Selected_Option)
5	=SET.VALUE(Selected_Option,"temp")
6	=SET.VALUE(Build_Test,3)
7	=Find_Windows()
8	=SET.VALUE(Selected_Option,Temp_Option)
9	=ACTIVATE(INDEX(Window_Names,Pri_Index))
10	=ECHO(FALSE)
11	=RETURN()
12	
13	
14	Find Windows (Function Macro)
15	
16	=SET.VALUE(Window_Names,WINDOWS(3))
17	=SET.VALUE(Macro_Index,0)
18	=SET.VALUE(Pri_Index,0)
19	=SET.VALUE(ADS_Index,0)
20	=SET.VALUE(Print_Index,0)
21	=SET.VALUE(Sens_Index,0)
22	=SET.VALUE(Build_Index_Outer,1)
23	Outer Window Loop
24	
25	=SET.VALUE(Build_Index,1)
26	Window Loop
27	=SET.VALUE(Temp_Index,SEARCH(INDEX(Test_Text,Build_Index_Outer),INDEX(Window_Names,Build_Index_Outer)))
28	=IF(ISNUMBER(Temp_Index)=FALSE,GOTO(Window_Index))
29	
30	=IF(Build_Index_Outer=1,SET.VALUE(Pri_Index,Build_Index))
31	=IF(Build_Index_Outer=2,SET.VALUE(ADS_Index,Build_Index))
32	=IF(Build_Index_Outer=3,SET.VALUE(Macro_Index,Build_Index))
33	=IF(Build_Index_Outer=4,SET.VALUE(Print_Index,Build_Index))
34	=IF(Build_Index_Outer=5,SET.VALUE(Sens_Index,Build_Index))
35	=SET.VALUE(Build_Test,Build_Test-1)
36	
37	Window Index
38	=SET.VALUE(Build_Index,Build_Index+1)
39	=IF(Build_Index<6,GOTO(Window_Loop))
40	
41	
42	=SET.VALUE(Build_Index_Outer,Build_Index_Outer+1)
43	
44	=IF(Build_Index_Outer<6,GOTO(Outer_Window_Loop))
45	=IF(Selected_Option="temp",GOTO(Check_Option_Temp))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
46	=IF(Selected_Option="b",GOTO(Chech_Option_b))
47	=IF(Selected_Option="o",GOTO(Chech_Option_o))
48	=IF(Selected_Option="n",GOTO(Chech_Option_n))
49	=IF(Selected_Option="s",GOTO(Check_Option_s))
50	=IF(Selected_Option="j",GOTO(Chech_Option_j))
51	=IF(Build_Test=0,RETURN())
52	Check Option o
53	=IF(Macro_Index>0,RETURN(),GOTO(Wrong_Windows))
54	Check Option b
55	=IF(ADS_Index>0,IF(Pri_Index>0,RETURN()))
56	Check Option n
57	=IF(ADS_Index>0,RETURN(),GOTO(Wrong_Windows))
58	Check Option Temp
59	=IF(Pri_Index>0,RETURN(),GOTO(Wrong_Windows))
60	Check Option s
61	=IF(Print_Index>0,RETURN(),GOTO(Wrong_Windows))
62	Check Option j
63	=IF(Sens_Index>0,RETURN(),GOTO(Wrong_Windows))
64	
65	Wrong Windows
66	=ALERT("Wrong Windows or Not Enough Windows Opened",1)
67	=HALT()
68	
69	
70	Count Entries { Function Routine called by other Command routines }
71	
72	=ACTIVATE(INDEX(Window_Names,Pri_Index))
73	=SELECT(INDEX(ITransition_Activity,1))
74	=IF(FORMULA.FIND(End_Pri_List,2,2,2,1)=FALSE,GOTO(Bad_List))
75	=SET.VALUE(Act_y_Count,GET.CELL(2,SELECTION()))
76	=SELECT(INDEX(ITransition_Activity,1))
77	=SET.VALUE(Act_y_Count,Act_y_Count-GET.CELL(2,SELECTION()))
78	=RETURN()
79	
80	
81	
82	Save Formulas { Function Routine called by other Command routines }
83	
84	=IF(Selected_Option<>"b",GOTO(Bad_Save_Formula_Call))
85	=MESSAGE(TRUE,"Saving Formulas")
86	=SELECT(INDEX(IRatio,1):INDEX(ICost,2))
87	=COPY()
88	=SELECT(INDEX(ISave_Cost_Formulas,1):INDEX(ISave2,2))
89	=PASTE.SPECIAL(2)
90	=MESSAGE(FALSE,"")

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
91	=SELECT(INDEX(IActivity_Cost,1))
92	=COPY()
93	=SELECT(INDEX(ISave_Cost_Formulas,3))
94	=PASTE.SPECIAL(2)
95	=MESSAGE(TRUE,"Saving Formulas")
96	=SELECT(INDEX(IEquations_1,1):INDEX(IScore,1))
97	=COPY()
98	=SELECT(INDEX(ISave_Cost_Formulas,4):INDEX(ISave2,4))
99	=PASTE.SPECIAL(2)
100	=MESSAGE(FALSE,"")
101	=SELECT(INDEX(IEst_1,1))
102	=COPY()
103	=SELECT(INDEX(ISave_Cost_Formulas,5))
104	=PASTE.SPECIAL(2)
105	=MESSAGE(TRUE,"Saving Formulas")
106	=SELECT(INDEX(IEst_2,1))
107	=COPY()
108	=SELECT(INDEX(ISave_Cost_Formulas,6))
109	=PASTE.SPECIAL(2)
110	=MESSAGE(FALSE,"")
111	=SELECT(INDEX(IEquations_2,1))
112	=COPY()
113	=SELECT(INDEX(ISave2,6))
114	=PASTE.SPECIAL(2)
115	=MESSAGE(TRUE,"Formulas Saved")
116	=RETURN()
117	
118	
119	Restore Formulas { Function Routine called by other Command routines }
120	
121	=ACTIVATE(INDEX(Window_Names,Pri_Index))
122	=CALCULATION(3)
123	=SELECT(INDEX(ISave_Cost_Formulas,1):INDEX(ISave2,2))
124	=COPY()
125	=SELECT(INDEX(IRatio,1):INDEX(ICost,2))
126	=PASTE.SPECIAL(2)
127	=MESSAGE(TRUE,"Rebuilding Formulas")
128	=SELECT(INDEX(IRatio,2):INDEX(ICost,2))
129	=COPY()
130	=SELECT(INDEX(IRatio,3):INDEX(ICost,Act_y_Count))
131	=PASTE.SPECIAL(2)
132	=MESSAGE(FALSE,"Rebuilding Formulas")
133	=SELECT(INDEX(ISave_Cost_Formulas,4):INDEX(ISave2,4))
134	=COPY()
135	=MESSAGE(FALSE,"Rebuilding Formulas")

Attachment E-1

	A
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
136	=SELECT(INDEX(IEquations_1,1):INDEX(IScore,Act_y_Count))
137	=PASTE.SPECIAL(2)
138	=MESSAGE(TRUE,"Rebuilding Formulas")
139	=SELECT(INDEX(ISave_Cost_Formulas,3))
140	=COPY()
141	=SELECT(INDEX(IActivity_Cost,1):INDEX(IActivity_Cost,Act_y_Count))
142	=PASTE.SPECIAL(2)
143	=MESSAGE(FALSE,"Rebuilding Formulas")
144	=SELECT(INDEX(ISave_Cost_Formulas,5))
145	=COPY()
146	=SELECT(INDEX(IEst_1,1):INDEX(IEst_1,Act_y_Count))
147	=PASTE.SPECIAL(2)
148	=MESSAGE(TRUE,"Rebuilding Formulas")
149	=SELECT(INDEX(ISave_Cost_Formulas,6))
150	=COPY()
151	=SELECT(INDEX(IEst_2,1):INDEX(IEst_2,Act_y_Count))
152	=PASTE.SPECIAL(2)
153	=MESSAGE(FALSE,"Rebuilding Formulas")
154	=SELECT(INDEX(ISave2,6))
155	=COPY()
156	=SELECT(INDEX(IEquations_2,1):INDEX(IEquations_2,Act_y_Count))
157	=PASTE.SPECIAL(2)
158	=MESSAGE(TRUE,"Completed Rebuilding Formulas")
159	=CALCULATION(1)
160	=RETURN()
161	
162	
163	Set Return
164	=ECHO(FALSE)
165	=CALCULATION(3)
166	=ACTIVATE(INDEX(Window_Names,Pri_Index))
167	=MESSAGE(TRUE,"Restoring Blank Columns for Return")
168	=SELECT(INDEX(IBlank_1,1))
169	=FORMULA(Blank)
170	=SELECT(INDEX(IBlank_1,1):INDEX(IBlank_1,(Act_y_Count+1)))
171	=FILL.DOWN()
172	=MESSAGE(FALSE,"")
173	=SELECT(INDEX(IBlank_2,1))
174	=FORMULA(Blank)
175	=SELECT(INDEX(IBlank_2,1):INDEX(IBlank_2,(Act_y_Count+1)))
176	=FILL.DOWN()
177	=MESSAGE(TRUE,"Blank Columns Restored")
178	=CALCULATION(1)
179	=IF(Iy_n="y",PROTECT.DOCUMENT(TRUE,TRUE,))

Attachment E-1

	A
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
180	=SELECT(INDEX(ISeq.,1))
181	
182	=MESSAGE(FALSE,"")
183	=SET.VALUE(Option_Message,REPLACE(Option_Message_Base,8,1,Selected_Option))
184	=MESSAGE(TRUE,Option_Message)
185	
186	=BEEP()
187	=IF(Auto.Run="",RETURN(),GOTO(Auto_Return))
188	
189	
190	Fix Print Titles (Function Macro)
191	
192	
193	
194	=SET.VALUE(Title_Index,1)
195	Title Loop
196	
197	=IF(GET.FORMULA(INDEX(ITitle_Line,Title_Index))=Title_Start, SET.VALUE(Title_Length,0))
198	=SET.VALUE(Title_Length,Title_Length+GET.CELL(16,INDEX(ITitle_Line,Title_Index)))
199	=IF(GET.FORMULA(INDEX(ITitle_Line,Title_Index))=Title_End, GOTO(Range_Found))
200	=SET.VALUE(Title_Index,Title_Index+1)
201	=IF(Title_Index<100,GOTO(Title_Loop))
202	=ALERT("Invalid Print Title Column Heading. Option Halted",1)
203	=HALT()
204	Range Found
205	
206	=SET.VALUE(Page_Percent,INT((Title_Length/Max_Title_Length)*100))
207	=IF(Selected_Option="h",PAGE.SETUP("&l&d&cPage A-&p (of A-&N)&r&f",,,,,,,,,,Page_Percent))
208	=IF(Selected_Option="l",PAGE.SETUP("&l&d&cPage D-&p (of D-&N)&r&f",,,,,,,,,,Page_Percent))
209	=IF(Selected_Option="p",IF(IFY_Choice="",PAGE.SETUP("&l&d&cPage C-&p (of C-&N)&r&f",,,,,,,,,,Page_Percent),PAGE.SETUP("&l&d&cPage Y-&p (of Y-&N)&r&f",,,,,,,,,,Page_Percent))
210	
211	=IF(Selected_Option="h",GOTO(Set_Table_1))
212	=SELECT(INDEX(ICol_A,1))
213	=IF(FORMULA.FIND(Tab_2_Head_Top,2,2,2,1)=FALSE,GOTO(No_Heading_Locator))
214	=SET.VALUE(Row_Top,GET.CELL(2,SELECTION())-1)
215	=SELECT(INDEX(ICol_A,1))
216	=IF(FORMULA.FIND(Tab_2_Head_Bot,2,2,2,1)=FALSE,GOTO(No_Heading_Locator))
217	=SET.VALUE(Row_Bottom,GET.CELL(2,SELECTION())-1)
218	=GOTO(Set_Titles)
219	
220	Set Table 1
221	
222	=SELECT(INDEX(ICol_A,1))
223	=IF(FORMULA.FIND(Tab_1_Head_Top,2,2,2,1)=FALSE,GOTO(No_Heading_Locator))
224	=SET.VALUE(Row_Top,GET.CELL(2,SELECTION())-1)

Attachment E-1

A	
1	<u>A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)</u>
225	=SELECT(INDEX(ICol_A,1))
226	=IF(FORMULA.FIND(Tab_1_Head_Bot,2,2,2,1)=FALSE,GOTO(No_Heading_Locator))
227	=SET.VALUE(Row_Bottom,GET.CELL(2,SELECTION())-1)
228	
229	Set Titles
230	
231	=ACTIVATE(INDEX(Window_Names,Pri_Index))
232	=SELECT(INDEX(ICol_A,Row_Top):INDEX(ICol_IV,Row_Bottom))
233	=SET.PRINT.TITLES()
234	=RETURN()
235	
236	No Heading Locator
237	=ALERT("Error** Print Titles Heading Locator Ccolumn A) Is Missing, Program Halted",1)
238	=HALT()
239	
240	
241	<u>Check Precedence Flags (Function Macro)</u>
242	
243	=SET.VALUE(Mgt_Pri_Flag,IManagement_Priority_Flag)
244	=SET.VALUE(Must_Do_Flag,IMust_Do_Flag)
245	=SET.VALUE(Defer_Flag,IDefer_Flag)
246	=SET.VALUE(P_Col_Assig_Flag,IPri_Col_Management_Priority_Flag)
247	=SET.VALUE(P_Col_Defer_Flag,IPri_Col_Defer_Flag)
248	=SET.VALUE(P_Col_Error_Flag,IPri_Col_Error_Flag)
249	=SET.VALUE(P_Col_Must_Do_Flag,IPri_Col_Must_Do_Flag)
250	=SET.VALUE(P_Col_Prec_Flag,IPri_Col_Precedence_Assig_Flag)
251	=RETURN()
252	
253	
254	<u>Paste Selection { Call with [Option][Command][z] }</u>
255	=PASTE.SPECIAL(3)
256	BEEP()
257	=RETURN()
258	
259	
260	<u>Sub FY Costs { Call with [Option][Command][f] }</u>
261	
262	<i>This option assumes sort "c" has been completed using Total Activity Costs</i>
263	
264	
265	=Find_Windows_Pri()
266	=MESSAGE(TRUE,"Option f - Started")
267	=SET.VALUE(Selected_Option,"f")
268	

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
269	=IF(GET.FORMULA(ILast_Sort)="c",GOTO(Next_f))
270	=ALERT("Sorry, You Must Run Option c Before Option f. Program Halted ",1)
271	=SELECT(ILast_Sort)
272	=HALT()
273	Next f
274	=IF(GET.FORMULA(IFY_Choice)="",GOTO(Next_f2))
275	=ALERT("Sorry, You Must Run Option c with Total Activity Costs before Option f. Program Halted ",1)
276	=SELECT(IFY_Choice)
277	=HALT()
278	Next f2
279	=MESSAGE(TRUE,"Option f - Validity Tests Complete")
280	=MESSAGE(TRUE,"Option f - Resetting Cost Selection")
281	=SELECT(IFY_Choice)
282	=FORMULA(GET.FORMULA(IFY_for_Option__f))
283	
284	
285	=SELECT(ILast_Sort)
286	=FORMULA("f")
287	=MESSAGE(TRUE,"Option f - Complete")
288	=GOTO(Set_Return)
289	
290	
291	
292	Cost/Score Sort { Call with [Option][Command][c] }
293	
294	=SET.VALUE(Option_b_Start,NOW())
295	=ECHO(FALSE)
296	=SET.VALUE(Selected_Option,"c")
297	=Find_Windows_Pri()
298	=Check_Precedence_Flags()
299	=MESSAGE(TRUE,"Sorting Ratio Column")
300	=IF(GET.FORMULA(IFY_Choice)="",GOTO(FY_cost_OK))
301	=IF(ALERT("Total Costs NOT Selected for Sort. OK??",1)=TRUE,GOTO(FY_cost_OK))
302	=IF(GET.CELL(5,IFY_Choice)=GET.CELL(5,IFY_for_Option__f),GOTO(FY_cost_OK))
303	=ALERT("Selected FY Error, Option Aborted",1)
304	=HALT()
305	FY cost OK
306	
307	=Count_Entries()
308	=PROTECT.DOCUMENT(FALSE,FALSE,)
309	=MESSAGE(FALSE,"Sorting Ratio Column")
310	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))
311	=MESSAGE(TRUE,"Sorting Ratio Column")
312	=SORT(1,INDEX(IRatio,1),1)
313	=MESSAGE(FALSE,"Sorting Ratio Column")

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
314	=Restore_Formulas()
315	=MESSAGE(TRUE,"Sorting Ratio Column")
316	=CALCULATION(3)
317	=SET.VALUE(Must_Do_Index,1)
318	=ACTIVATE(INDEX(Window_Names,Pri_Index))
319	=SELECT(IFix_Flag)
320	=CLEAR(3)
321	=IF(Sensitivity_Test="yes",GOTO(Skip_Precedence_Placement_In_Cost_Sort))
322	=IF(IStack_Must_Do_at_top_of_Priority_Calc.__y_n="y",Must_Do_Priority_Override())
323	=IF(IUse_Precedence_Override_in_Priority_Calc.__y_n="y",Resort_on_Precedence())
324	=IF(IStack_Must_Do_at_top_of_Priority_Calc.__y_n="y",SET.VALUE(Act_y_Count,Act_y_Count+Deferred_Count))
325	=IF(IUse_Mgt_Override_in_Priority_Calc.__y_n="y",Management_Priority_Override())
326	Skip Precedence Placement in Cost Sort
327	=Restore_Formulas()
328	=MESSAGE(TRUE,"Sorting Ratio Column")
329	=SELECT(ILast_Sort)
330	=FORMULA("c")
331	=MESSAGE(FALSE,"Sorting Ratio Column")
332	=SELECT(ISort_Lable)
333	=FORMULA("{ Sorted by the [Cost + Benefit Ratio] Column }")
334	=MESSAGE(TRUE,"Ratio Sort Complete")
335	
336	=SELECT(IRe)
337	=FORMULA(Pri_Col_Inter)
338	=SET.VALUE(Option_b_End,NOW())
339	=SET.VALUE(Option_b_Time,(Option_b_End-Option_b_Start)*1440)
340	=ACTIVATE(INDEX(Window_Names,Pri_Index))
341	=SELECT(IOption__c_w__Run_Time)
342	=FORMULA(Option_b_Time)
343	=GOTO(Set_Return)
344	
345	
346	Select Total Costs { Call with [Option][Command][t] }
347	
348	=SET.VALUE(Selected_Option,"t")
349	=Find_Windows_Pri()
350	=ACTIVATE(INDEX(Window_Names,Pri_Index))
351	=SELECT(IFY_Choice)
352	=FORMULA("")
353	=GOTO(Set_Return)
354	
355	
356	Print Pri Summary { Call with [Option][Command][s] }
357	
358	=SET.VALUE(Option_b_Start,NOW())

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
359	=SET.VALUE(Selected_Option,"s")
360	=Find_Windows_Pri()
361	=ECHO(FALSE)
362	=ACTIVATE(INDEX(Window_Names,Pri_Index))
363	=IF(Auto.Run="",GOTO(Check_Cut_Line_Is_OK_Summary),GOTO(Cut_Line_Is_OK_Summary))
364	Check Cut Line Is OK-Summary
365	=SET.VALUE(Cut_Line,ICut_Line__M)
366	=SET.VALUE(Cut_Line_Temp,INPUT("Enter Revised 'Cut Line' Value",1,"Print Print Summary",Cut_Line,,))
367	=IF(Cut_Line_Temp=FALSE,GOTO(Cut_Line_Is_OK_Summary))
368	=SELECT(ICut_Line__M)
369	=FORMULA(Cut_Line_Temp)
370	Cut Line Is OK-Summary
371	
372	=Count_Entries()
373	=CALCULATION(3)
374	=PROTECT.DOCUMENT(FALSE,FALSE,)
375	=MESSAGE(TRUE,"Printing Complete, Clearing Print Field")
376	=ACTIVATE(INDEX(Window_Names,Macro_Index))
377	=HIDE()
378	=ACTIVATE(INDEX(Window_Names,Pri_Index))
379	=HIDE()
380	=ACTIVATE(INDEX(Window_Names,Print_Index))
381	=HIDE()
382	=ACTIVATE(INDEX(Window_Names,Print_Index))
383	=SET.VALUE(Build_Index,1)
384	=SET.VALUE(Build_Test,1)
385	Summary Clear Loop
386	
387	=SET.VALUE(Build_Test,Build_Index+10)
388	=SELECT(INDEX(IPri,Build_Index):INDEX(IRemarks,Build_Test))
389	=CLEAR(1)
390	=ROW.HEIGHT(13)
391	=SET.VALUE(Build_Index,Build_Index+10)
392	=IF(Build_Index<Act_y_Count,GOTO(Summary_Clear_Loop))
393	
394	=MESSAGE(TRUE,"Print Field Cleared")
395	=SET.VALUE(Build_Index,1)
396	=SET.VALUE(Build_Test,1)
397	
398	Summary Loop
399	
400	=SET.VALUE(Print_Message,REPLACE(Print_Message_Base,LEN(Print_Message),2,INT((Build_Index/Act_y_Count)*10
401	=MESSAGE(TRUE,Print_Message)
402	=ACTIVATE(INDEX(Window_Names,Pri_Index))
403	=IF(GET.FORMULA(INDEX(ITransition_Activity,Build_Index))=Cut_Line_Flag,GOTO(Build_Summary))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
404	=IF(GET.CELL(5,INDEX(IActivity_Cost,Build_Index))=0,GOTO(Index_Summary_Build_Index))
405	Build Summary
406	Copy [Pri] Through [Trans Activity] Columns
407	=SELECT(INDEX(IPri,Build_Index):INDEX(ITransition_Activity,Build_Index))
408	=COPY()
409	=ACTIVATE(INDEX(Window_Names,Print_Index))
410	=SELECT(INDEX(IPri,Build_Test):INDEX(ITransition_Activity,Build_Test))
411	=PASTE.SPECIAL(3)
412	=PASTE.SPECIAL(4)
413	Copy [Activity Cost] Column
414	=ACTIVATE(INDEX(Window_Names,Pri_Index))
415	=SELECT(INDEX(IActivity_Cost,Build_Index))
416	=COPY()
417	=ACTIVATE(INDEX(Window_Names,Print_Index))
418	=SELECT(INDEX(IActivity_Cost,Build_Test))
419	=PASTE.SPECIAL(3)
420	=PASTE.SPECIAL(4)
421	Copy [Sum Cost] Column
422	=ACTIVATE(INDEX(Window_Names,Pri_Index))
423	=SELECT(INDEX(ICost,Build_Index))
424	=COPY()
425	=ACTIVATE(INDEX(Window_Names,Print_Index))
426	=SELECT(INDEX(ICost,Build_Test))
427	=PASTE.SPECIAL(3)
428	=PASTE.SPECIAL(4)
429	
430	=SET.VALUE(Build_Test,Build_Test+1)
431	Index Summary Build Index
432	
433	=MESSAGE(FALSE,"Preparing Print Field")
434	=SET.VALUE(Build_Index,Build_Index+1)
435	=IF(Build_Index<(Act_y_Count+1),GOTO(Summary_Loop))
436	=ACTIVATE(INDEX(Window_Names,Print_Index))
437	
438	Renumber Pri Column
439	=SELECT(INDEX(IPri,1))
440	=FORMULA(1)
441	=DATA.SERIES(2,1,,1,Build_Test)
442	
443	=SET.VALUE(Build_Index,1)
444	Summary Format Loop
445	=MESSAGE(TRUE,"Preparing Bottom Formats")
446	=SET.VALUE(Priority_Count,Build_Index+10)
447	=IF(Priority_Count>Build_Test,SET.VALUE(Priority_Count,Build_Test))
448	=SELECT(INDEX(ITransition_Activity,Build_Index):INDEX(INew_Col,Priority_Count))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
449	=BORDER(,,,7,,,,)
450	=SELECT(INDEX(IActivity_Cost,Build_Index):INDEX(IActivity_Cost,Priority_Count))
451	=BORDER(,0,,,7,,,,)
452	=SELECT(INDEX(INew_Col,Build_Index):INDEX(INew_Col,Priority_Count))
453	=BORDER(,1,0,,7,,,,)
454	=SET.VALUE(Build_Index,Build_Index+10)
455	=MESSAGE(FALSE,"")
456	=IF(Build_Index<Build_Test,GOTO(Summary_Format_Loop))
457	=SELECT(INDEX(INew_Col,1))
458	=FORMULA(" ")
459	=SELECT(INDEX(INew_Col,1):INDEX(INew_Col,Build_Test))
460	=FILL.DOWN()
461	
462	Insert Cut Line in Limited Pri Field
463	=ACTIVATE(INDEX(Window_Names,Pri_Index))
464	=SET.VALUE(Cut_Line__M,GET.CELL(5,ICut_Line__M))
465	=ACTIVATE(INDEX(Window_Names,Print_Index))
466	=IF(Cut_Line__M<Cut_Line_Test,GOTO(Now_Print_Summary))
467	=SET.VALUE(Cut_Line_Count,MATCH(Cut_Line__M,ICost,1))
468	=IF(Cut_Line_Count>Build_Test,GOTO(Now_Print_Summary))
469	=SELECT(INDEX(IPri,Cut_Line_Count):INDEX(ICost,Cut_Line_Count))
470	=BORDER(,,,5,,,,)
471	Now Print Summary
472	
473	=MESSAGE(TRUE,"Print Field Prepared")
474	=SELECT(INDEX(IPri,1):INDEX(ICost,Build_Test-1))
475	=SET.PRINT.AREA()
476	=PRINT()
477	
478	=SET.VALUE(Option_b_End,NOW())
479	=SET.VALUE(Option_b_Time,(Option_b_End-Option_b_Start)*1440)
480	=ACTIVATE(INDEX(Window_Names,Pri_Index))
481	=SELECT(IOption__s__Run_Time)
482	=FORMULA(Option_b_Time)
483	=UNHIDE()
484	=ACTIVATE(INDEX(Window_Names,Macro_Index))
485	=UNHIDE()
486	=ACTIVATE(INDEX(Window_Names,Print_Index))
487	=UNHIDE()
488	=GOTO(Set_Return)
489	
490	
491	Must Do Priority Override (Function Macro)
492	
493	First Clear Stk Column

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
494	=SELECT(ISTk)
495	=CLEAR(3)
496	First Sort & Count Deferred Activities
497	=SET.VALUE(Build_Index,1)
498	=SET.VALUE(Deferred_Count,0)
499	=SET.VALUE(Must_Do_Index,0)
500	
501	Defer Loop 1
502	
503	=MESSAGE(TRUE,"Looking for 'Defer' or 'Must Do' in Precedence Column")
504	=SET.VALUE(Stack_Temp_Flag,No_Sort)
505	=SET.VALUE(Flag_Column_Temp_Flag,"")
506	Use Deferred Temp Flag to Cause "Defer" to Sort to Bottom of Stack
507	=IF(GET.FORMULA(INDEX(ITrans._ID,Build_Index))=Defer_Flag,SET.VALUE(Stack_Temp_Flag,Deferred_Temp_Flag))
508	=IF(GET.FORMULA(INDEX(ITrans._ID,Build_Index))=Defer_Flag,SET.VALUE(Flag_Column_Temp_Flag,P_Col_Defer_Flag))
509	=IF(GET.FORMULA(INDEX(ITrans._ID,Build_Index))=Defer_Flag,SET.VALUE(Deferred_Count,Deferred_Count+1))
510	Use Must Do Temp Flag to Cause "Must Do" to Sort to Top of Stack
511	=IF(GET.FORMULA(INDEX(ITrans._ID,Build_Index))=Must_Do_Flag,SET.VALUE(Stack_Temp_Flag,Must_Do_Temp_Flag))
512	=IF(GET.FORMULA(INDEX(ITrans._ID,Build_Index))=Must_Do_Flag,SET.VALUE(Flag_Column_Temp_Flag,P_Col_Must_D
513	=IF(GET.FORMULA(INDEX(ITrans._ID,Build_Index))=Must_Do_Flag,SET.VALUE(Must_Do_Index,Must_Do_Index+1))
514	
515	=SELECT(INDEX(ISTk,Build_Index))
516	=FORMULA(Stack_Temp_Flag)
517	Set Deferred or Must Do Flag ("D" or "M") in Column
518	=SELECT(INDEX(IFix_Flag,Build_Index))
519	=FORMULA(Flag_Column_Temp_Flag)
520	
521	=MESSAGE(FALSE,"")
522	=SET.VALUE(Build_Index,Build_Index+1)
523	=IF(Build_Index<(Act_y_Count+1),GOTO(Defer_Loop_1))
524	
525	=MESSAGE(TRUE,"Sorting for 'Defer' or 'Must Do' in Precedence Column")
526	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))
527	=SORT(1,INDEX(ISTk,1),)
528	
529	=SELECT(INDEX(IPri,1))
530	=FORMULA(1)
531	=DATA.SERIES(2,1,,1,(Act_y_Count))
532	=RETURN()
533	
534	
535	Management Priority Override (Function Macro)
536	
537	First test for Multiple Priorities selected
538	=SET.VALUE(Priority_Count,1)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
539	=SET.VALUE(Mngt_Assigned_Count,0)
540	=CALCULATION(3)
541	Clear Log Tables
542	=ACTIVATE(INDEX(Window_Names,Macro_Index))
543	=SELECT(Repri)
544	=CLEAR(3)
545	=SELECT(NewPri)
546	=CLEAR(3)
547	=ACTIVATE(INDEX(Window_Names,Pri_Index))
548	
549	Outer Test Loop
550	
551	=MESSAGE(FALSE,"Checking for Redundent Ratio Values")
552	=SET.VALUE(Priority_Test,GET.FORMULA(INDEX(ITrans._ID,Priority_Count)))
553	=IF(Priority_Test="",GOTO(Outer_Test_Index))
554	=SET.VALUE(Temp_Index,SEARCH(Mgt_Pri_Flag,Priority_Test,1))
555	=IF(ISNUMBER(Temp_Index)=FALSE,GOTO(Outer_Test_Index))
556	
557	=SET.VALUE(Priority_Test,REPLACE(Priority_Test,1,Mgt_Pri_Flag_Length,""))
558	
559	=SET.VALUE(Priority_Test,VALUE(Priority_Test))
560	=IF(Priority_Test>Act_y_Count,GOTO(Invalid_Management_Priority_Found))
561	=IF(Priority_Test<1,GOTO(Outer_Test_Index))
562	
563	=IF(ISNUMBER(Priority_Test)=FALSE,GOTO(Outer_Test_Index))
564	Match Found, Log It in Log Tables
565	=SET.VALUE(Mngt_Assigned_Count,Mngt_Assigned_Count+1)
566	=SET.VALUE(INDEX(NewPri,Mngt_Assigned_Count),Priority_Test)
567	=SET.VALUE(INDEX(Repri,Mngt_Assigned_Count),Priority_Count)
568	=SET.VALUE(Priority_Test,GET.FORMULA(INDEX(ITrans._ID,Priority_Count)))
569	=SET.VALUE(Priority_Cnt_2,1)
570	
571	Test Loop
572	
573	=MESSAGE(TRUE,"Checking for Management Assigned Priorities")
574	=IF(Priority_Cnt_2=Priority_Count,GOTO(Test_Index))
575	=IF(GET.FORMULA(INDEX(ITrans._ID,Priority_Cnt_2))=Priority_Test,GOTO(Redundent_Management_Priorities_Found),
576	
577	Redundent Management Priorities Found
578	=ALERT("Redundent Management Priorities Found, Option Aborted",1)
579	=BEEP()
580	=SELECT(INDEX(ITrans._ID,Priority_Cnt_2))
581	=MESSAGE(TRUE,"Checking for Management Assigned Priorities")
582	=HALT()
583	
584	Invalid Management Priority Found
585	=ALERT("Invalid Management Priority Found, Option Aborted",1)
586	=BEEP()

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
587	=SELECT(INDEX(ITrans._ID,Priority_Count))
588	=MESSAGE(TRUE,"Invalid Management Priority Found")
589	=HALT()
590	
591	Test Index
592	=SET.VALUE(Priority_Cnt_2,Priority_Cnt_2+1)
593	=MESSAGE(FALSE,"Checking for Redundent Management Assigned Priorities")
594	=IF(Priority_Cnt_2<(Act_y_Count+1),GOTO(Test_Loop))
595	Outer Test Index
596	=SET.VALUE(Priority_Count,Priority_Count+1)
597	=MESSAGE(FALSE,"Checking for Redundent Management Assigned Priorities")
598	=IF(Priority_Count<(Act_y_Count+1),GOTO(Outer_Test_Loop))
599	
600	No Multiple Priorities Found, Now Restack the List
601	
602	=IF(Mngt_Assigned_Count=0,RETURN())
603	
604	=ACTIVATE(INDEX(Window_Names,Macro_Index))
605	=SELECT(INDEX(Repri,1):INDEX(NewPri,Mngt_Assigned_Count))
606	=SORT(1,INDEX(NewPri,1),1)
607	=ACTIVATE(INDEX(Window_Names,Pri_Index))
608	
609	Management Outer Loop
610	
611	=SELECT(INDEX(ISTk,1))
612	=FORMULA(1)
613	=DATA.SERIES(2,1,,1,(Act_y_Count))
614	
615	=SET.VALUE(Build_Test,0)
616	=SET.VALUE(Priority_Count,1)
617	=SET.VALUE(Index_Offset,0)
618	
619	Management Loop
620	
621	=MESSAGE(TRUE,"Restacking List for Management Assigned Priorities")
622	=SET.VALUE(Index_Offset,0.05)
623	=SET.VALUE(Temp_Index,INDEX(NewPri,Priority_Count))
624	=IF(Temp_Index>INDEX(Repri,Priority_Count),GOTO(Fix_Later))
625	
626	=SET.VALUE(A.Temp1,Temp_Index+0.1)
627	=SELECT(INDEX(ISTk,Temp_Index))
628	=FORMULA(A.Temp1)
629	=IF(Temp_Index=Act_y_Count,SET.VALUE(Index_Offset,0.5))
630	Fix Later
631	
632	=SELECT(INDEX(ISTk,INDEX(Repri,Priority_Count)))
633	=FORMULA(INDEX(NewPri,Priority_Count)+Index_Offset)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
634	=MESSAGE(FALSE,"Restacking List for Management Assigned Priorities")
635	Now set Assigned Flag in Fix Flag Column
636	=SELECT(INDEX(IFix_Flag,INDEX(Repri,Priority_Count)))
637	=FORMULA(P_Col_Assig_Flag)
638	
639	=SET.VALUE(Priority_Count,Priority_Count+1)
640	=IF(Priority_Count<(Mngt_Assigned_Count+1),GOTO(Management_Loop))
641	
642	=SET.VALUE(Mngt_Assigned_Count,0)
643	Clear Log Tables
644	=ACTIVATE(INDEX(Window_Names,Macro_Index))
645	=SELECT(Repri)
646	=CLEAR(3)
647	=SELECT(NewPri)
648	=CLEAR(3)
649	=ACTIVATE(INDEX(Window_Names,Pri_Index))
650	
651	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))
652	=SORT(1,INDEX(IStk,2),1)
653	
654	=SET.VALUE(Priority_Count,1)
655	=SET.VALUE(Mngt_Assigned_Count,0)
656	Recheck Loop
657	
658	=MESSAGE(TRUE,"Checking Management Assigned Priorities")
659	=SET.VALUE(Priority_Test,GET.FORMULA(INDEX(ITrans._ID,Priority_Count)))
660	=IF(Priority_Test="",GOTO(Recheck_Index))
661	=SET.VALUE(Temp_Index,SEARCH(Mgt_Pri_Flag,Priority_Test,1))
662	=IF(ISNUMBER(Temp_Index)=FALSE,GOTO(Recheck_Index))
663	=SET.VALUE(Priority_Test,REPLACE(Priority_Test,1,Mgt_Pri_Flag_Length,""))
664	=SET.VALUE(Priority_Test,VALUE(Priority_Test))
665	=IF(Priority_Test<1,GOTO(Recheck_Index))
666	=IF(ISNUMBER(Priority_Test)=FALSE,GOTO(Recheck_Index))
667	=IF(Priority_Test>Act_y_Count,GOTO(Invalid_Management_Priority_Found))
668	=MESSAGE(FALSE,"Checking Management Assigned Priorities")
669	=IF(Priority_Test=Priority_Count,GOTO(Recheck_Index))
670	Match Found, Log It
671	=SET.VALUE(Mngt_Assigned_Count,Mngt_Assigned_Count+1)
672	=SET.VALUE(INDEX(NewPri,Mngt_Assigned_Count),Priority_Test)
673	=SET.VALUE(INDEX(Repri,Mngt_Assigned_Count),Priority_Count)
674	
675	Recheck Index
676	=SET.VALUE(Priority_Count,Priority_Count+1)
677	=IF(Priority_Count<Act_y_Count,GOTO(Recheck_Loop))
678	

Attachment E-1

A

1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
679	=SELECT(INDEX(IPri,1))
680	=FORMULA(1)
681	=DATA.SERIES(2,1,,1,(Act_y_Count+Deferred_Count))
682	
683	=IF(Mngt_Assigned_Count>0,GOTO(Management_Outer_Loop),RETURN())
684	
685	
686	Resort on Precedence (Function Macro)
687	
688	=CALCULATION(3)
689	Precedence Outer Loop
690	
691	=SET.VALUE(Prec_Assigned_Count,0)
692	=SET.VALUE(Priority_Count,1)
693	Clear Log Tables
694	=ACTIVATE(INDEX(Window_Names,Macro_Index))
695	=SELECT(Repri)
696	=CLEAR(3)
697	=SELECT(NewPri)
698	=CLEAR(3)
699	=ACTIVATE(INDEX(Window_Names,Pri_Index))
700	
701	"Initialize" Stk Column
702	=SELECT(INDEX(IStk,1))
703	=FORMULA(1)
704	=DATA.SERIES(2,1,,1,(Act_y_Count+Deferred_Count))
705	
706	
707	Precedence Loop
708	
709	=Set_Precedence_Message()
710	=IF(GET.FORMULA(INDEX(ITrans._ID,Priority_Count))="",GOTO(Index_Precedence_Loop))
711	=SET.VALUE(Prec_Assigned,GET.CELL(5,INDEX(ITrans._ID,Priority_Count)))
712	=IF(ISNUMBER(Prec_Assigned)=FALSE,GOTO(Index_Precedence_Loop))
713	=IF(Prec_Assigned=0,GOTO(Index_Precedence_Loop))
714	
715	=SET.VALUE(Prec_Index,1)
716	P-Look Loop
717	=IF(GET.CELL(5,INDEX(IDEPT,Prec_Index))=GET.CELL(5,INDEX(ITrans._ID,Priority_Count)),GOTO(P_Look_Loop_Found))
718	=SET.VALUE(Prec_Index,Prec_Index+1)
719	=IF(Prec_Index<(Act_y_Count+1),GOTO(P_Look_Loop),GOTO(No_Precedence_Found))
720	P-Look Loop Found
721	Skip it if Activity Priority Above Current
722	=IF(Prec_Index<Priority_Count,GOTO(Index_Precedence_Loop))
723	=IF(Prec_Index=Priority_Count,GOTO(No_Precedence_Found))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
724	Flag It If Percedence is "Deferred"
725	=IF(GET.FORMULA(INDEX(ITrans._ID,Prec_Index))=Defer_Flag,GOTO(No_Precedence_Found))
726	=GOTO(Precedence_Found)
727	
728	No Precedence Found
729	
730	
731	Skip setting Error Flag in Fix Flag Column if already Set
732	=IF(GET.FORMULA(INDEX(IFix_Flag,Priority_Count))="E",GOTO(Index_Precedence_Loop))
733	Now set Error Flag in Fix Flag Column
734	=MESSAGE(TRUE,"No Precedence Found. Priority Flagged 'E'")
735	=BEEP()
736	=SELECT(INDEX(IFix_Flag,Priority_Count))
737	=FORMULA(P_Col_Error_Flag)
738	=GOTO(Index_Precedence_Loop)
739	
740	
741	Set Precedence Message (Function Macro)
742	
743	=MESSAGE(FALSE,"")
744	=SET.VALUE(Prec_Message,REPLACE(Prec_Message_Base,LEN(Prec_Message_Base),2,Prec_Assigned_Co
745	=MESSAGE(TRUE,Prec_Message)
746	=RETURN()
747	
748	Precedence Found
749	
750	
751	=SET.VALUE(Prec_Assigned_Count,Prec_Assigned_Count+1)
752	=SET.VALUE(INDEX(NewPri,Prec_Assigned_Count),Prec_Index)
753	=SET.VALUE(INDEX(Repri,Prec_Assigned_Count),Priority_Count)
754	
755	Index Precedence Loop
756	
757	=SET.VALUE(Priority_Count,Priority_Count+1)
758	=MESSAGE(FALSE,"")
759	=IF(Priority_Count<(Act_y_Count+1),GOTO(Precedence_Loop))
760	=Set_Precedence_Message()
761	
762	Now test for completed
763	=IF(Prec_Assigned_Count=0,GOTO(Precedence_Complete))
764	
765	Now Fix Stk Column
766	=SET.VALUE(Prec_index,1)
767	Precedence Fix Loop
768	

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
769	=Set_Precedence_Message()
770	<i>Skip it if "Stk" Already Reset</i>
771	=IF(GET.CELL(5,INDEX(IStk,INDEX(NewPri,Prec_Index)))<INDEX(Repri,Prec_Index),GOTO(Index_Precedence_Fix_Loop))
772	=SELECT(INDEX(IStk,INDEX(NewPri,Prec_Index)))
773	=FORMULA(INDEX(Repri,Prec_Index)-CBR_Delta_to_Use)
774	<i>Now set Precedence Flag in Fix Flag Column</i>
775	=SELECT(INDEX(IFix_Flag,INDEX(NewPri,Prec_Index)))
776	=FORMULA(P_Col_Prec_Flag)
777	
778	Index Precedence Fix Loop
779	=MESSAGE(FALSE,"")
780	=SET.VALUE(Prec_Index,Prec_Index+1)
781	=IF(Prec_Index<Prec_Assigned_Count,GOTO(Precedence_Fix_Loop))
782	
783	<i>Now Resort on "Stk" Column</i>
784	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))
785	=SORT(1,INDEX(IStk,1),1)
786	
787	=GOTO(Precedence_Outer_Loop)
788	
789	Precedence Complete
790	
791	<i>Now reset calculated priority numbers column</i>
792	=SELECT(INDEX(IPri,1))
793	=FORMULA(1)
794	=DATA.SERIES(2,1,,1,(Act_y_Count))
795	
796	=RETURN()
797	
798	
799	Weighted Score Sort Sort by [Wtd. Score] Col. { Call With [Cmd][Opt][w] }
800	
801	=SET.VALUE(Option_b_Start,NOW())
802	=SET.VALUE(Selected_Option,"w")
803	=Find_Windows_Pri()
804	=ECHO(FALSE)
805	=MESSAGE(TRUE,"Sorting [Wtd. Score] Column")
806	=Check_Precedence_Flags()
807	=Count_Entries()
808	=PROTECT.DOCUMENT(FALSE,FALSE,)
809	=MESSAGE(TRUE,"Sorting [Wtd. Score] Column")
810	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))
811	=SORT(1,INDEX(IScore,1),2)
812	=ACTIVATE(INDEX(Window_Names,Pri_Index))
813	=SET.VALUE(Must_Do_Index,1)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
814	=SELECT(IFix_Flag)
815	=CLEAR(3)
816	=CALCULATION(3)
817	=IF(Sensitivity_Test="yes",GOTO(Skip_Precedence_Placement_in_Weighted_Score_Sort))
818	=IF(IStack_Must_Do_at_top_of_Priority_Calc.__y_n="y",Must_Do_Priority_Override())
819	=IF(IUse_Precedence_Override_in_Priority_Calc.__y_n="y",Resort_on_Precedence())
820	=IF(IStack_Must_Do_at_top_of_Priority_Calc.__y_n="y",SET.VALUE(Act_y_Count,Act_y_Count+Deferred_Count))
821	=IF(IUse_Mgt_Override_in_Priority_Calc.__y_n="y",Management_Priority_Override())
822	Skip Precedence Placement in Weighted Score Sort
823	=Restore_Formulas()
824	=SELECT(ILast_Sort)
825	=FORMULA("w")
826	=MESSAGE(FALSE,"[Wtd. Score] Column")
827	=SELECT(ISort_Label)
828	=FORMULA("{ Sorted by the [Wtd. Score] Column }")
829	=MESSAGE(TRUE,"[Wtd. Score] Sort Complete")
830	=SELECT(IRE)
831	=FORMULA(Pri_Col_Inter)
832	=SET.VALUE(Option_b_End,NOW())
833	=SET.VALUE(Option_b_Time,(Option_b_End-Option_b_Start)*1440)
834	=ACTIVATE(INDEX(Window_Names,Pri_Index))
835	=SELECT(IOption__c_w__Run_Time)
836	=FORMULA(Option_b_Time)
837	=GOTO(Set_Return)
838	
839	
840	Priority Group Sort { Call with [Option][Command][g] }
841	
842	=SET.VALUE(Selected_Option,"g")
843	=Find_Windows_Pri()
844	=ECHO(FALSE)
845	=IF(ALERT("Sort by [Trans ID] Column?",1)=TRUE,GOTO(Transaction_ID_Sort))
846	
847	=IF(ALERT("Sort by [Input Seq] Column?",1)=TRUE,GOTO(Sequence_Sort))
848	=IF(ALERT("Sort by [Driver Code] Column?",1)=FALSE,RETURN())
849	=MESSAGE(TRUE,"Sorting [Driver Code] Column")
850	=Count_Entries()
851	=Delete_Cut_Line()
852	=PROTECT.DOCUMENT(FALSE,FALSE,)
853	=SELECT(ICut_Line_Paste)
854	=CLEAR(1)
855	=SELECT(IAppendix_Discussion)
856	=FORMULA("")
857	=MESSAGE(TRUE,"Sorting [Driver Code] Column")
858	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
859	=SORT(1,INDEX(ICat,1),1)
860	=SELECT(ILast_Sort)
861	=FORMULA("g")
862	=MESSAGE(FALSE,"Sorting [Driver Code] Column")
863	=Restore_Formulas()
864	=SELECT(ISort_Lable)
865	=FORMULA("{ Sorted by the [Driver Code] Column }")
866	=MESSAGE(TRUE,"[Driver Code] Sort Complete")
867	=GOTO(Set_Return)
868	
869	
870	Transaction ID Sort
871	
872	=Find_Windows_Pri()
873	=ECHO(FALSE)
874	=MESSAGE(TRUE,"Sorting [Trans ID] Column")
875	=Delete_Cut_Line()
876	=Count_Entries()
877	=SELECT(ICut_Line_Paste)
878	=CLEAR(1)
879	=SELECT(IAppendix_Discussion)
880	=FORMULA("")
881	=MESSAGE(TRUE,"Sorting [Trans ID] Column")
882	=PROTECT.DOCUMENT(FALSE,FALSE,)
883	=MESSAGE(FALSE,"Sorting [Trans ID] Column")
884	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))
885	=MESSAGE(TRUE,"Sorting [Trans ID] Column")
886	=SORT(1,INDEX(IDEPT,1),1)
887	=SELECT(ILast_Sort)
888	=FORMULA("i")
889	=Restore_Formulas()
890	=SELECT(ISort_Lable)
891	=FORMULA("{ Sorted by the [Trans ID] Column }")
892	=MESSAGE(TRUE,"[Trans ID] Sort Complete")
893	=GOTO(Set_Return)
894	
895	
896	Sequence Sort
897	
898	=Find_Windows_Pri()
899	=ECHO(FALSE)
900	=MESSAGE(TRUE,"Sorting [Input Seq] Column")
901	=PROTECT.DOCUMENT(FALSE,FALSE,)
902	=Count_Entries()
903	=SELECT(IAppendix_Discussion)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
904	=FORMULA("")
905	=SELECT(ICut_Line_Paste)
906	=CLEAR(1)
907	=Delete_Cut_Line()
908	=MESSAGE(TRUE,"Sorting [Input Seq] Column")
909	=SELECT(INDEX(ISeq.,1):INDEX(IColumn,Act_y_Count))
910	=MESSAGE(FALSE,"Sorting [Input Seq] Column")
911	=SORT(1,,1)
912	=SELECT(ILast_Sort)
913	=FORMULA("s")
914	=Restore_Formulas()
915	=MESSAGE(TRUE,"Sorting [Input Seq] Column")
916	=SELECT(ISort_Lable)
917	=FORMULA("{ Sorted by the [Input Seq] Column (Column not Printed) }")
918	=MESSAGE(TRUE,"[Input Seq] Sort Complete")
919	=GOTO(Set_Return)
920	=RETURN()
921	
922	
923	Print Attributes (Prints Table 1){ Call with [Option][Command][h]}
924	
925	=Find_Windows_Pri()
926	=ECHO(FALSE)
927	=PROTECT.DOCUMENT(FALSE,FALSE,)
928	=SET.VALUE(Selected_Option,"h")
929	=Fix_Print_Titles()
930	=SELECT(IAttributes:LEnd_Attribute_Print)
931	=SET.PRINT.AREA()
932	=PRINT()
933	=MESSAGE(TRUE,"Printing Complete")
934	=GOTO(Set_Return)
935	
936	
937	Print It (Prints Table 2) { Call with [Option][Command][p] }
938	
939	=Find_Windows_Pri()
940	=ECHO(FALSE)
941	=Count_Entries()
942	=PROTECT.DOCUMENT(FALSE,FALSE,)
943	=SELECT(IRe)
944	=FORMULA(F...Col_Inter)
945	=SELECT(IAppexnix_Name)
946	=FORMULA("Appendix C2")
947	=IF(GET.FORMULA(IFY_Choice)="",FORMULA("Appendix C"))
948	=SELECT(Icut_line_set_at)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
949	=COPY()
950	=SELECT(ICut_Line_Paste)
951	=IF(GET.FORMULA(IFY_Choice)="",CLEAR(1),PASTE())
952	=SELECT(IAppendix_Discussion)
953	=FORMULA("Priority List Based on FY Cost Estimates; Zero FY Cost Activities Included")
954	=IF(GET.FORMULA(IFY_Choice)="",FORMULA("Priority List Based on Total Cost Estimates; Zero Total Cost Activities Included"))
955	=SET.VALUE(Selected_Option,"p")
956	=Fix_Print_Titles()
957	=SELECT(INDEX(IPri,1):INDEX(ICost,Act_y_Count))
958	=SET.PRINT.AREA()
959	=PRINT()
960	=MESSAGE(TRUE,"Printing Complete")
961	=IF(Sensitivity_Test="yes",RETURN())
962	=GOTO(Set_Return)
963	
964	
965	Print Limited (Prints "Limited" -Appendix D) { Call with [Option][Command][I] }
966	
967	=Find_Windows_Pri()
968	=ECHO(FALSE)
969	=Count_Entries()
970	=CALCULATION(3)
971	=PROTECT.DOCUMENT(FALSE,FALSE,)
972	=ACTIVATE(INDEX(Window_Names,Pri_Index))
973	=IF(Auto.Run="",GOTO(Check_Cut_Line_is_OK_Limited),GOTO(Cut_Line_is_OK_Limited))
974	Check Cut Line is OK-Limited
975	=SET.VALUE(Cut_Line,ICut_Line__M)
976	=SET.VALUE(Cut_Line_Temp,INPUT("Enter Revised 'Cut Line' Value",1,"Print Limited",Cut_Line_Temp))
977	=IF(Cut_Line_Temp=FALSE,GOTO(Cut_Line_is_OK_Limited))
978	=SELECT(ICut_Line__M)
979	=FORMULA(Cut_Line_Temp)
980	Cut Line is OK-Limited
981	
982	=SELECT(IRe)
983	=FORMULA(Pri_Col_Calc)
984	=SET.VALUE(Selected_Option,"I")
985	=SELECT(IAppexnix_Name)
986	=FORMULA("Appendix D")
987	=SELECT(IAppendix_Discussion)
988	=FORMULA("Priority List Based on FY Cost Estimates; Zero Cost Activities Excluded")
989	=SELECT(Icut_line__set_at)
990	=COPY()
991	=SELECT(ICut_Line_Paste)
992	=PASTE()
993	=Fix_Print_Titles()

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
994	=SET.VALUE(Build_Index,1)
995	Limited Clear Loop
996	
997	=SET.VALUE(Build_Test,Build_Index+10)
998	=MESSAGE(TRUE,"Printing Complete, Clearing Print Field")
999	=SELECT(INDEX(IPri_Limited,Build_Index):INDEX(ICost_Limited,Build_Index))
1000	=CLEAR(1)
1001	=ROW.HEIGHT(13)
1002	=SET.VALUE(Build_Index,Build_Index+10)
1003	=MESSAGE(FALSE,"")
1004	=IF(Build_Index<Build_Test,GOTO(Limited_Clear_Loop))
1005	=MESSAGE(TRUE,"Print Field Cleared")
1006	
1007	=Delete_Cut_Line()
1008	=SET.VALUE(Build_Index,1)
1009	=SET.VALUE(Build_Test,1)
1010	Limited Loop
1011	
1012	=MESSAGE(TRUE,"Preparing Print Field")
1013	
1014	=IF(GET.CELL(5,INDEX(IActivity_Cost,Build_Index))=0,GOTO(Index_Build_Index))
1015	Copy Line
1016	=SELECT(INDEX(IPri,Build_Index):INDEX(ICost,Build_Index))
1017	=COPY()
1018	=SELECT(INDEX(IPri_Limited,Build_Test):INDEX(ICost_Limited,Build_Test))
1019	=PASTE.SPECIAL(3)
1020	=PASTE.SPECIAL(4)
1021	
1022	=SET.VALUE(Build_Test,Build_Test+1)
1023	Index Build Index
1024	=MESSAGE(FALSE,"Preparing Print Field")
1025	=SET.VALUE(Build_Index,Build_Index+1)
1026	=IF(Build_Index<(Act_y_Count+1),GOTO(Limited_Loop))
1027	=MESSAGE(TRUE,"Print Field Prepared")
1028	Renumber Pri Column
1029	=SELECT(INDEX(IPri_Limited,1))
1030	=FORMULA(1)
1031	=DATA.SERIES(2,1,,1,Build_Test)
1032	Insert Cut Line in Limited Pri Field
1033	=SET.VALUE(Cut_Line__M,GET.CELL(5,ICut_Line__M))
1034	=IF(Cut_Line__M<Cut_Line_Test,GOTO(Now_Print))
1035	=SET.VALUE(Cut_Line_Count,MATCH(Cut_Line__M,ICost_Limited,1))
1036	=IF(Cut_Line_Count>Build_Test,GOTO(Now_Print))
1037	=SELECT(INDEX(IPri_Limited,Cut_Line_Count):INDEX(ICost_Limited,Cut_Line_Count))
1038	=BORDER(,,,5,,,,)

Attachment E-1

A

1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1039	Now Print
1040	=SELECT(INDEX(IPri_Limited,1):INDEX(ICost_Limited,Build_Test))
1041	=SET.PRINT.AREA()
1042	=PRINT()
1043	=GOTO(Set_Return)
1044	
1045	
1046	Insert Cut Line { Function routine called by other Command routines }
1047	
1048	=SET.VALUE(Cut_Line__M,GET.CELL(5,ICut_Line__M))
1049	=IF(Cut_Line__M<Cut_Line_Test,RETURN())
1050	
1051	=SET.VALUE(Cut_Line_Count,MATCH(Cut_Line__M,ICost,1))
1052	=IF(Cut_Line_Count>Act_y_Count,GOTO(No_Cut_Line_Alert))
1053	=SELECT(INDEX(IPri,Cut_Line_Count):INDEX(ICost,Cut_Line_Count))
1054	=BORDER(,,,5,,,,)
1055	
1056	=MESSAGE(TRUE,"Cut Line Installed")
1057	=MESSAGE(FALSE,"")
1058	=MESSAGE(TRUE,"Cut Line Installed")
1059	=RETURN()
1060	
1061	No Cut Line Alert
1062	=ALERT("No Activities below Cut Line",1)
1063	=MESSAGE(TRUE,"No Activities below Cut Line")
1064	=RETURN()
1065	
1066	Delete Cut Line { Function routine called by other Command routines }
1067	
1068	=SET.VALUE(Cut_Line__M,GET.CELL(5,ICut_Line__M))
1069	=IF(Cut_Line__M<Cut_Line_Test,RETURN())
1070	=SET.VALUE(Cut_Line_Count,MATCH(Cut_Line__M,ICost,1))
1071	=IF(Cut_Line_Count>Act_y_Count,GOTO(No_Cut_Line_Message))
1072	=SELECT(INDEX(IPri,(Cut_Line_Count-1)):INDEX(ICost,(Cut_Line_Count+1)))
1073	=BORDER(,,,7,,,,)
1074	=MESSAGE(TRUE,"Cut Line Deleted")
1075	=MESSAGE(FALSE,"")
1076	=MESSAGE(TRUE,"Cut Line Deleted")
1077	=ECHO(FALSE)
1078	=RETURN()
1079	No Cut Line Message
1080	=MESSAGE(TRUE,"No Cut Line to Delete")
1081	=MESSAGE(FALSE,"")
1082	=MESSAGE(TRUE,"No Cut Line to Delete")
1083	=ECHO(FALSE)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1084	=RETURN()
1085	
1086	
1087	Post Revision Dates { Call with [Option][Command][???] }
1088	=SET.VALUE(Selected_Option,"d")
1089	=Find_Windows_Pri()
1090	=ECHO(FALSE)
1091	=Count_Entries()
1092	=SET.VALUE(Cut_Line_Count,2)
1093	
1094	Update Date Loop
1095	
1096	=MESSAGE(TRUE,"Updating Revision Dates")
1097	=IF(GET.FORMULA(INDEX(IRev,Cut_Line_Count))=GET.FORMULA(INDEX(ILast_Rev,Cut_Line_Count)),GOTO(No_Update))
1098	=SELECT(INDEX(IRev,Cut_Line_Count))
1099	=COPY()
1100	=SELECT(INDEX(ILast_Rev,Cut_Line_Count))
1101	=PASTE()
1102	=SELECT(INDEX(IEntered,Cut_Line_Count))
1103	=FORMULA(NOW())
1104	
1105	No Update
1106	=MESSAGE(FALSE,"Updating Revision Dates")
1107	=SET.VALUE(Cut_Line_Count,Cut_Line_Count+1)
1108	=IF(Cut_Line_Count<(Act_y_Count),GOTO(Update_Date_Loop))
1109	
1110	=MESSAGE(TRUE,"Revision Dates Updated")
1111	=BEEP()
1112	=IF(Iy_n="y",PROTECT.DOCUMENT(TRUE,TRUE,))
1113	=SELECT(INDEX(IRev,1))
1114	=RETURN()
1115	
1116	
1117	Find Options List { Call with [Option][Command][o] }
1118	
1119	=SET.VALUE(Build_Test,2)
1120	=SET.VALUE(Selected_Option,"o")
1121	=Find_Windows()
1122	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1123	=ECHO(FALSE)
1124	Find Loop 1
1125	=IF(INDEX(Opt,Auto.Index)="",GOTO(Sort_Option_Table.Find))
1126	=SET.VALUE(Auto.Index,Auto.Index+1)
1127	=GOTO(Find_Loop_1)

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Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1128	Sort Option Table.Find
1129	=SELECT(INDEX(Auto,1):INDEX(Use,Auto.Index-1))
1130	=SORT(1,INDEX(Opt,1),1)
1131	=SELECT(INDEX(Auto,1))
1132	=BEEP()
1133	=RETURN()
1134	
1135	
1136	Precent Message (Function Macro)
1137	
1138	=SET.VALUE(Building_Message,REPLACE(Building_Message_Base,LEN(Building_Message_Base),2,INT((Build_Index_C
1139	=MESSAGE(TRUE,Building_Message)
1140	=RETURN()
1141	
1142	
1143	Find ADS Size (Function Macro)
1144	
1145	=SELECT(INDEX(ITitle,1))
1146	=IF(FORMULA.FIND>Last_Entry_Test,2,2,2,1)=FALSE,GOTO(Bad_List))
1147	=SET.VALUE(Length,GET.CELL(2,SELECTION()))
1148	=SELECT(INDEX(ITitle,1))
1149	=SET.VALUE(Length,Length-GET.CELL(2,SELECTION()))
1150	=RETURN()
1151	
1152	Bad List
1153	=ALERT("Invalid Title Table End. Option Halted",1)
1154	Halt()
1155	
1156	
1157	Build Activities (from Transition ADS's File)
1158	{ Call with [Option][Command][b] }
1159	
1160	
1161	=ECHO(FALSE)
1162	=SET.VALUE(Option_b_Start,NOW())
1163	=CALCULATION(3)
1164	=SET.VALUE(Selected_Option,"b")
1165	=SET.VALUE(Build_Test,3)
1166	=Find_1Windows()
1167	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1168	=IF(Auto.Run="",GOTO(Cut_Line_is_OK))
1169	=SET.VALUE(Cut_Line,ICut_Line__M)
1170	=SET.VALUE(Cut_Line_Temp,INPUT("Enter Revised 'Cut Line' Value",1,"Build Spreadsheet",Cut_Line,))
1171	=IF(Cut_Line_Temp=FALSE,GOTO(Cut_Line_is_OK))
1172	=SELECT(ICut_Line__M)

Attachment E-1

	A
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1173	=FORMULA(Cut_Line_Temp)
1174	Cut Line Is OK
1175	=ACTIVATE(INDEX(Window_Names,ADS_Index))
1176	=Find_ADS_Size()
1177	=HIDE()
1178	=SET.VALUE(Build_Index,0)
1179	=Precent_Message()
1180	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1181	=HIDE()
1182	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1183	=HIDE()
1184	
1185	=SET.VALUE(FY_Choice_Input,INPUT("Enter Two Digit FY No. for Calculations",1,"Bulld Spreadsheet",,))
1186	=IF(FY_Choice_Input=FALSE,GOTO(Claer_Done))
1187	=IF(FY_Choice_Input<0,GOTO(Bad_FY))
1188	=IF(FY_Choice_Input>100,GOTO(Bad_FY))
1189	=IF(FY_Choice_Input<6,GOTO(FY_OK))
1190	=IF(FY_Choice_Input>93,GOTO(FY_OK))
1191	
1192	Bad FY
1193	=ALERT("Invalid FY Entered. Option Aborted",1)
1194	=GOTO(Claer_Done)
1195	
1196	FY OK
1197	
1198	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1199	=SELECT(!FY_for_Option__f)
1200	=FORMULA(FY_Choice_Input)
1201	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1202	
1203	=SET.VALUE(Save_Prec_Flag,"yes")
1204	IF(ALERT("Restore Previous Precedences??",1)=TRUE,GOTO(Save_Um))
1205	=SET.VALUE(Save_Prec_Flag,"no")
1206	=GOTO(Saved_Done)
1207	Save-Um
1208	
1209	=SELECT(P._Title_Area)
1210	=CLEAR(3)
1211	=SELECT(P._Title_1)
1212	=CLEAR(3)
1213	=SELECT(P._Title_1_Area)
1214	=CLEAR(3)
1215	=SELECT(P._Title_2)
1216	=CLEAR(3)
1217	=ACTIVATE(INDEX(Window_Names,Pri_Index))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1218	=Count_Entries()
1219	
1220	=SET.VALUE(Prec_Index,1)
1221	=SET.VALUE(Prec_Assigned_Count,0)
1222	
1223	Save Prec Loop
1224	
1225	=MESSAGE(TRUE,"Saving Precedence Titles")
1226	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1227	=IF(GET.FORMULA(INDEX(ITrans._ID,Prec_Index))="",GOTO(Index_Save_Prec))
1228	=SET.VALUE(Prec_Assigned,GET.CELL(5,INDEX(ITrans._ID,Prec_Index)))
1229	=IF(ISNUMBER(Prec_Assigned)=FALSE,GOTO(Index_Save_Prec))
1230	
1231	=IF(Prec_Assigned<1,GOTO(Index_Save_Prec))
1232	=SET.VALUE(Prec_Assigned_Count,Prec_Assigned_Count+1)
1233	=SET.VALUE(INDEX(P._Title_1,Prec_Assigned_Count),GET.FORMULA(INDEX(ITransition_Activity,Prec_Index)))
1234	=SET.VALUE(INDEX(P._Title_1_Area,Prec_Assigned_Count),GET.FORMULA(INDEX(IArea,Prec_Index)))
1235	=MESSAGE(TRUE," Precedence Found")
1236	=SELECT(INDEX(IDEPT,1))
1237	=IF(FORMULA.FIND(Prec_Assigned,2,2,2,1)=FALSE,GOTO(Bad_Prec))
1238	=SET.VALUE(Temp_Index,GET.CELL(2,SELECTION()))
1239	=SELECT(INDEX(IDEPT,1))
1240	=SET.VALUE(Temp_Index,Temp_Index-GET.CELL(2,SELECTION()))+1)
1241	=SET.VALUE(INDEX(P._Title_2,Prec_Assigned_Count),GET.FORMULA(INDEX(ITransition_Activity,Temp_Index)))
1242	=SET.VALUE(INDEX(P._Title_Area,Prec_Assigned_Count),GET.FORMULA(INDEX(IArea,Temp_Index)))
1243	
1244	Index Save Prec
1245	
1246	=MESSAGE(FALSE,"Saving Precedence Titles")
1247	=SET.VALUE(Prec_Index,Prec_Index+1)
1248	=IF(Prec_Index<Act_y_Count,GOTO(Save_Prec_Loop),GOTO(Found_all_Prec))
1249	
1250	Bad Prec
1251	=ALERT("Invalid Precedenct. Option Halted",1)
1252	=SELECT(INDEX(ITrans._ID,Prec_Index))
1253	=HALT()
1254	
1255	Found all Prec
1256	
1257	=MESSAGE(TRUE," All Precedence Found")
1258	Saved Done
1259	
1260	=GOTO(Build_Cross_Ref_Table)
1261	
1262	Build Done

Attachment E-1

	A
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1263	
1264	=IF(Save_Prec_Flag="no",GOTO(Saved_Done.2))
1265	
1266	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1267	=IF(Prec_Assigned_Count=0,GOTO(Saved_all_Prec))
1268	=SET.VALUE(Prec_Index,1)
1269	
1270	Restore Prec Loop
1271	
1272	=MESSAGE(TRUE,"Restoring Precedences")
1273	Find Index for Activity Title Corresponding to Saved "Title 1"
1274	=SELECT(INDEX(ITransition_Activity,1))
1275	Recheck Area 1
1276	=IF(FORMULA.FIND(INDEX(P._Title_1,Prec_Index),2,2,2,1)=FALSE,GOTO(Bad_Prec.Save))
1277	=SET.VALUE(Prec_Temp,GET.CELL(2,SELECTION()))
1278	=SELECT(INDEX(ITransition_Activity,1))
1279	=SET.VALUE(Prec_Temp,Prec_Temp-GET.CELL(2,SELECTION()+1))
1280	Skip Updating if Precedence already Assigned !!
1281	=IF(ISNUMBER(INDEX(ITrans._ID,Prec_Temp))=TRUE,GOTO(Index_Restore_Prec))
1282	=IF(GET.FORMULA(INDEX(IArea,Prec_Temp))=INDEX(P._Title_1_Area,Prec_Index),GOTO(Area_1_OK),SELECT(INDEX(ITransition_Activity,1)))
1283	=GOTO(Recheck_Area_1)
1284	
1285	Area 1-OK
1286	Find Index for Activity Title Corresponding to Saved "Title 2"
1287	=SELECT(INDEX(ITransition_Activity,1))
1288	Recheck Area
1289	=IF(FORMULA.FIND(INDEX(P._Title_2,Prec_Index),2,2,2,1)=FALSE,GOTO(Bad_Prec.Save))
1290	=SET.VALUE(Temp_Index,GET.CELL(2,SELECTION()))
1291	=SELECT(INDEX(ITransition_Activity,1))
1292	=SET.VALUE(Temp_Index,Temp_Index-GET.CELL(2,SELECTION()+1))
1293	=IF(GET.FORMULA(INDEX(IArea,Temp_Index))=INDEX(P._Title_Area,Prec_Index),GOTO(Area_OK),SELECT(INDEX(ITransition_Activity,1)))
1294	=GOTO(Recheck_Area)
1295	Area-OK
1296	=SET.VALUE(Prec_Assigned,GET.CELL(5,INDEX(IDEPT,Temp_Index)))
1297	=SELECT(INDEX(ITrans._ID,Prec_Temp))
1298	=FORMULA(Prec_Assigned)
1299	Index Restore Prec
1300	
1301	=MESSAGE(FALSE,"Restoring Precedences")
1302	=SET.VALUE(Prec_Index,Prec_Index+1)
1303	=IF(Prec_Index<(Prec_Assigned_Count+1),GOTO(Restore_Prec_Loop),GOTO(Saved_all_Prec))
1304	
1305	Bad Prec.Save
1306	
1307	=ALERT("Invalid Precedenct. Option Halted",1)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1308	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1309	=SELECT(INDEX(P._Title_1,Prec_Index))
1310	=HALT()
1311	
1312	Saved all Prec
1313	
1314	=MESSAGE(TRUE," All Precedences Restored")
1315	Saved Done.2
1316	
1317	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1318	=SELECT(INDEX(ITransition_Activity,Act_y_Count))
1319	=FORMULA(End_Pri_List)
1320	Renumber the "Seq" Column on the Pri Spreadsheet
1321	=SELECT(INDEX(ISeq.,1))
1322	=FORMULA(1)
1323	=DATA.SERIES(2,1,,1,(Act_y_Count))
1324	
1325	Claer Done
1326	
1327	=SET.VALUE(Option_b_End,NOW())
1328	=SET.VALUE(Option_b_Time,(Option_b_End-Option_b_Start)*1440)
1329	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1330	=SELECT(IOption__b__Run_Time)
1331	=FORMULA(Option_b_Time)
1332	=UNHIDE()
1333	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1334	=UNHIDE()
1335	=ACTIVATE(INDEX(Window_Names,ADS_Index))
1336	=UNHIDE()
1337	=ECHO(FALSE)
1338	=GOTO(Set_Return)
1339	=RETURN()
1340	
1341	
1342	Edit List (insert / Delete Lines based on Edit Flag Column)
1343	<u>{call with [command][option][x] }</u>
1344	
1345	=Find_Windows_Pri()
1346	=ECHO(FALSE)
1347	=Count_Entries()
1348	=PROTECT.DOCUMENT(FALSE,FALSE,)
1349	=SET.VALUE(Selected_Option,"x")
1350	=CALCULATION(3)
1351	=SET.VALUE(Build_Index,1)
1352	

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1353	Edit Loop
1354	=MESSAGE(TRUE,"Editing Spreadsheet")
1355	=SET.VALUE(Build_Test,GET.CELL(5,INDEX(IFlag,Build_Index)))
1356	=IF(Build_Test=0,GOTO(Edit_Index))
1357	=MESSAGE(FALSE,"Editing Spreadsheet")
1358	=IF(Build_Test>0,GOTO(Insert_Lines))
1359	=IF(Build_Test<0,GOTO(Delete_Line))
1360	=GOTO(Edit_Index)
1361	
1362	Insert Lines
1363	
1364	=MESSAGE(TRUE,"Inserting Lines")
1365	=SELECT(INDEX(IFlag,Build_Index-1):INDEX(IColumn,Build_Index+Build_Test-2))
1366	=INSERT(2)
1367	=SET.VALUE(Priority_Count,0)
1368	Insert Fill Loop
1369	=SELECT(INDEX(ITransition_Activity,(Build_Index-1+Priority_Count)))
1370	=FORMULA(Edit_Fill)
1371	=SET.VALUE(Priority_Count,Priority_Count+1)
1372	=IF(Priority_Count<Build_Test,GOTO(Insert_Fill_Loop))
1373	=SET.VALUE(Build_Index,Build_Index+Build_Test)
1374	=SET.VALUE(Act_y_Count,Act_y_Count+Build_Test)
1375	=SELECT(INDEX(IFlag,Build_Index))
1376	=FORMULA("")
1377	=GOTO(Edit_Index)
1378	
1379	Delete Line
1380	=MESSAGE(TRUE,"Deleting Line")
1381	=SELECT(INDEX(IFlag,Build_Index):INDEX(IColumn,Build_Index))
1382	=EDIT.DELETE(2)
1383	=SET.VALUE(Act_y_Count,Act_y_Count-1)
1384	=SET.VALUE(Build_Index,Build_Index-1)
1385	
1386	Edit Index
1387	=MESSAGE(FALSE,"Deleting Line")
1388	=SET.VALUE(Build_Index,Build_Index+1)
1389	=IF(Build_Index<(Act_y_Count+1),GOTO(Edit_Loop))
1390	
1391	=IF(ALERT("Reset Input Sequence Column ?",1)=FALSE,GOTO(Edit_Complete))
1392	=MESSAGE(TRUE,"Re-numbering Input Sequence Column")
1393	=SELECT(INDEX(ISeq.,1))
1394	=FORMULA(1)
1395	=DATA.SERIES(2,1,,1,(Act_y_Count))
1396	
1397	Edit Complete

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1398	=MESSAGE(TRUE,"Editing Complete")
1399	=GOTO(Set_Return)
1400	
1401	
1402	Run Option Sequence { call with {option}[Command][r] }
1403	
1404	=SET.VALUE(Auto.Run,"")
1405	
1406	=SET.VALUE(Build_Test,2)
1407	=Find_Windows()
1408	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1409	=SET.VALUE(Auto.Index,1)
1410	Auto Loop 1
1411	=IF(INDEX(Opt,Auto.Index)="",GOTO(Sort_Option_Table))
1412	=SET.VALUE(Auto.Index,Auto.Index+1)
1413	=GOTO(Auto_Loop_1)
1414	Sort Option Table
1415	=SET.VALUE(Auto.Index.Max,Auto.Index-1)
1416	=SELECT(INDEX(Auto,1):INDEX(Use,Auto.Index))
1417	=SORT(1,,1)
1418	=SET.VALUE(Auto.Index,1)
1419	Auto Loop 2
1420	
1421	=SET.VALUE(Auto.Run,INDEX(Opt,Auto.Index))
1422	=SET.VALUE(Auto.Run,TRIM(Auto.Run))
1423	
1424	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1425	=IF(Auto.Run="h",GOTO(RunOh))
1426	=IF(Auto.Run="b",GOTO(RunOb))
1427	=IF(Auto.Run="c",GOTO(RunOc))
1428	=IF(Auto.Run="f",GOTO(RunOf))
1429	=IF(Auto.Run="g",GOTO(RunOg))
1430	=IF(Auto.Run="i",GOTO(RunOi))
1431	=IF(Auto.Run="l",GOTO(RunOl))
1432	=IF(Auto.Run="n",GOTO(RunOn))
1433	=IF(Auto.Run="p",GOTO(RunOp))
1434	=IF(Auto.Run="s",GOTO(RunOs))
1435	=IF(Auto.Run="t",GOTO(RunOt))
1436	=IF(Auto.Run="w",GOTO(RunOw))
1437	=IF(Auto.Run="u",GOTO(RunOu))
1438	
1439	=ALERT("Invalid Auto Run Option Selected, Automatic Running Halted",1)
1440	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1441	=SELECT(INDEX(Auto,Auto.Index))
1442	=HALT()

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1443	
1444	RunOh
1445	=GOTO(Print_Attributes)
1446	RunOb
1447	=GOTO(Build_Activities)
1448	RunOc
1449	=GOTO(Cost_Score_Sort)
1450	RunOf
1451	=GOTO(Sub_FY_Costs)
1452	RunOg
1453	=GOTO(Priority_Group_Sort)
1454	RunOi
1455	=GOTO(Transaction_ID_Sort)
1456	RunOl
1457	=GOTO(Print_Limited)
1458	RunOn
1459	=GOTO(Renumber_Acty_ID_s)
1460	RunOp
1461	=GOTO(Print_It)
1462	RunOs
1463	=GOTO(Print_Pri_Summary)
1464	RunOt
1465	=GOTO(Select_Total_Costs)
1466	RunOw
1467	=GOTO(Weighted_Score_Sort)
1468	RunOu
1469	=GOTO(xx)
1470	
1471	Auto Return
1472	
1473	=SET.VALUE(INDEX(Auto,Auto.Index),"")
1474	=SET.VALUE(Auto.Index,Auto.Index+1)
1475	=IF(INDEX(Auto,Auto.Index)="",GOTO(Auto_Complete),GOTO(Auto_Loop_2))
1476	Auto Complete
1477	=SET.VALUE(Auto.Run,"")
1478	=MESSAGE(TRUE,"Automatic Option Sequence Completed Complete")
1479	=BEEP()
1480	=BEEP()
1481	=RETURN()
1482	
1483	
1484	Renumber Acty ID's { call with {option}[Command][n] }
1485	
1486	=SET.VALUE(Build_Test,2)
1487	=SET.VALUE(Selected_Option,"n")

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1488	=Find_Windows()
1489	=ACTIVATE(INDEX(Window_Names,ADS_Index))
1490	=ECHO(FALSE)
1491	=CALCULATION(3)
1492	=Find_ADS_Size()
1493	=MESSAGE(TRUE,"Counting ADS Entries")
1494	=SET.VALUE(Build_Test,"New")
1495	=IF(ALERT("Renumber All Activities?",1)=TRUE,SET.VALUE(Build_Test,"All"))
1496	
1497	=SET.VALUE(Build_Index,1)
1498	Renumber Loop 2
1499	=MESSAGE(TRUE,"Setting ADS Sub-Numbers")
1500	=IF(INDEX(IADS_Title,Build_Index)="",GOTO(Test_Blank))
1501	=SET.VALUE(Temp_Option,GET.CELL(5,INDEX(IADS_No.,Build_Index)))
1502	=IF(Temp_Option<1,GOTO(Test_Blank))
1503	=IF(INT(Temp_Option)=Temp_Option,GOTO(Set_Base),GOTO(Test_Blank))
1504	Set Base
1505	=SET.VALUE(ADS_Base,Temp_Option)
1506	=GOTO(Index_Renumber_Loop_2)
1507	
1508	Test Blank
1509	
1510	=IF(GET.FORMULA(INDEX(ITitle,Build_Index))="",GOTO(Index_Renumber_Loop_2))
1511	=IF(Build_Test="All",GOTO(Fix_New_ADS))
1512	=IF(GET.FORMULA(INDEX(IADS_No.,Build_Index))="",GOTO(Fix_New_ADS),GOTO(Index_Renumber_Loop_2))
1513	Fix New ADS
1514	=SET.VALUE(ADS_Base,ADS_Base+ADS_Increment)
1515	=SELECT(INDEX(IADS_No.,Build_Index))
1516	=FORMULA(ADS_Base)
1517	
1518	Index Renumber Loop 2
1519	=MESSAGE(FALSE,"Setting ADS Sub-Numbers")
1520	
1521	=SET.VALUE(Build_Index,Build_Index+1)
1522	=IF(Build_Index<Length,GOTO(Renumber_Loop_2))
1523	=CALCULATION(1)
1524	=MESSAGE(TRUE,"Setting ADS Sub-Number Setting Complete")
1525	=BEEP()
1526	=IF(Auto.Run="",RETURN(),GOTO(Auto_Return))
1527	
1528	
1529	<u>Insert Defer Flag { call with {option}[[Command]][d] }</u>
1530	
1531	=SET.VALUE(Defer_Flag,!Defer_Flag)
1532	=SELECT(SELECTION())

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1533	=FORMULA(Defer_Flag)
1534	=BEEP()
1535	=RETURN()
1536	
1537	
1538	Insert Must Do Flag { call with {option}[Command][m] }
1539	
1540	=SET.VALUE(Must_Do_Flag,IMust_Do_Flag)
1541	=SELECT(SELECTION())
1542	=FORMULA(Must_Do_Flag)
1543	=BEEP()
1544	=RETURN()
1545	
1546	
1547	Insert Management Assigned Flag { call with {option}[Command][a] }
1548	
1549	=SET.VALUE(A.Temp1,GET.FORMULA(SELECTION()))
1550	=SET.VALUE(Pri_Length,LEN(A.Temp1))
1551	=SET.VALUE(Mgt_Pri_Flag_Length,LEN(Mgt_Pri_Flag))
1552	=SET.VALUE(Mgt_Pri_Flag,REPLACE(Mgt_Pri_Flag,Mgt_Pri_Flag_Length+1,Pri_Length,A.Temp1))
1553	=SELECT(SELECTION())
1554	=FORMULA(Mgt_Pri_Flag)
1555	=BEEP()
1556	=RETURN()
1557	
1558	
1559	Build Cross Ref Table
1560	
1561	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1562	=Save_Formulas()
1563	=SET.VALUE(Build_Index,1)
1564	Pri Clear Loop
1565	
1566	=SET.VALUE(Build_Test,Build_Index+10)
1567	=MESSAGE(TRUE,"Clearing Tables ")
1568	=SELECT(INDEX(IStk,Build_Index):INDEX(ITot_Calc,Build_Test))
1569	=CLEAR(3)
1570	=ROW.HEIGHT(13)
1571	=SET.VALUE(Build_Index,Build_Index+10)
1572	=MESSAGE(FALSE," ")
1573	=IF(Build_Index<Length,GOTO(Pri_Clear_Loop))
1574	
1575	=ACTIVATE(INDEX(Window_Names,ADS_Index))
1576	=SET.VALUE(Build_Index_Outer,1)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1577	Table Loop 1
1578	
1579	=MESSAGE(TRUE,"Building Index Tables ")
1580	=SET.VALUE(Build_Index,1)
1581	Table Loop 1 Inner
1582	
1583	=MESSAGE(TRUE,"Building Index Tables ")
1584	=IF(INDEX(ILine_Title,Build_Index)=INDEX(ADS_Col_Name,Build_Index_Outer),GOTO(Set_ADS),GOTO(Index_Inner-Ta
1585	Set ADS
1586	=SET.VALUE(INDEX(ADS_Col,Build_Index_Outer),Build_Index+ADS_Index_Offset)
1587	=GOTO(Index_Outer_Table_1)
1588	
1589	Index Inner Table 1
1590	=SET.VALUE(Build_Index,Build_Index+1)
1591	=IF(Build_Index<No_of_Titles,GOTO(Table_Loop_1_Inner))
1592	Index Outer Table 1
1593	=SET.VALUE(Build_Index_Outer,Build_Index_Outer+1)
1594	=IF(Build_Index_Outer<No_of_Col,GOTO(Table_Loop_1))
1595	
1596	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1597	=SET.VALUE(Build_Index_Outer,1)
1598	Table Loop 2
1599	
1600	=SET.VALUE(Build_Index,1)
1601	Table Loop 2 Inner
1602	
1603	=IF(INDEX(ILine_Title,Build_Index)=INDEX(Pri_Col_Name,Build_Index_Outer),GOTO(Set_Pri),GOTO(Index_Inner_Table
1604	Set Pri
1605	=SET.VALUE(INDEX(Pri_Col,Build_Index_Outer),Build_Index+Pri_Index_Offset)
1606	=GOTO(Index_Outer_Table_2)
1607	Index Inner Table 2
1608	
1609	=MESSAGE(FALSE,"Building Index Tables ")
1610	=SET.VALUE(Build_Index,Build_Index+1)
1611	=IF(Build_Index<No_of_Titles,GOTO(Table_Loop_2_Inner))
1612	Index Outer Table 2
1613	
1614	=MESSAGE(FALSE,"Building Index Tables ")
1615	=SET.VALUE(Build_Index_Outer,Build_Index_Outer+1)
1616	=IF(Build_Index_Outer<No_of_Col,GOTO(Table_Loop_2))
1617	
1618	=SET.VALUE(Build_Index_Outer,1)
1619	Clear Mode Loop
1620	=MESSAGE(TRUE,"Clearing ModeTables ")
1621	=IF(ISNUMBER(INDEX(ADS_Col_Name,Build_Index_Outer))=TRUE,SET.VALUE(INDEX(Mode,Build_Index_Ou

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1622	=SET.VALUE(Build_Index_Outer,Build_Index_Outer+1)
1623	=IF(Build_Index_Outer<No_of_Coi,GOTO(Clear_Mode_Loop))
1624	=MESSAGE(FALSE," ")
1625	=SET.VALUE(Build_Index_Outer,1)
1626	Set Mode Loop
1627	=MESSAGE(TRUE,"Setting ModeTables ")
1628	=IF(INDEX(ADS_Col_Name,Build_Index_Outer)=GET.CELL(5,IFY),SET.VALUE(INDEX(Mode,Build_Index_Outer),"convert
1629	=IF(ISNUMBER(INDEX(ADS_Col_Name,Build_Index_Outer))=FALSE,GOTO(Index_Set_Mode))
1630	
1631	Index Set Mode
1632	=MESSAGE(FALSE," ")
1633	=SET.VALUE(Build_Index_Outer,Build_Index_Outer+1)
1634	=IF(Build_Index_Outer<No_of_Col,GOTO(Set_Mode_Loop))
1635	
1636	
1637	=SET.VALUE(Build_Index_Outer,1)
1638	=SET.VALUE(Act_y_Count,1)
1639	Transfer Loop
1640	
1641	=Precent_Message()
1642	=ACTIVATE(INDEX(Window_Names,ADS_Index))
1643	Skip Blank Title Rows
1644	=IF(INDEX(ITitle,Build_Index_Outer)="",GOTO(Index_Build_Outer))
1645	Test for Last Entry
1646	=IF(INDEX(ITitle,Build_Index_Outer)=Last_Entry_Test,GOTO(Fix_End))
1647	Skip If Total Cost Is Zero Rows
1648	=IF(GET.CELL(5,INDEX(ITotal__K,Build_Index_Outer))=0,GOTO(Index_Build_Outer))
1649	OK, Get Data
1650	=SELECT(INDEX(IADS_No.,Build_Index_Outer):INDEX(IRemarks,Build_Index_Outer))
1651	=COPY()
1652	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1653	=SELECT(INDEX(ADS_Row,1):INDEX(ADS_Row,No_ADS_Row_Col))
1654	=PASTE.SPECIAL(3)
1655	=GOT.(Get_Pri_Row)
1656	
1657	Index Build Outer
1658	
1659	
1660	=SET.VALUE(Build_Index_Outer,Build_Index_Outer+1)
1661	=GOTO(Transfer_Loop)
1662	
1663	Get Pri Row
1664	
1665	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1666	=SELECT(INDEX(IADS,Act_y_Count):INDEX(ITot_Calc,Act_y_Count))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1667	=COPY()
1668	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1669	=SELECT(INDEX(Pri_Row,1):INDEX(Pri_Row,No_Pri_Row_Col))
1670	=PASTE()
1671	=SET.VALUE(Build_Index,1)
1672	Transfer Inner Loop
1673	
1674	Precent_Message()
1675	=SET.VALUE(A_Index.1,INDEX(ADS_Col,Build_Index))
1676	=SET.VALUE(A_Index.2,INDEX(Pri_Col,Build_Index))
1677	=IF(INDEX(Mode,Build_Index)="",GOTO(Index_Inner_Transfer_Loop))
1678	=IF(INDEX(Mode,Build_Index)="convert",GOTO(Convert_It))
1679	=IF(INDEX(Mode,Build_Index)="copy",GOTO(Copy_It))
1680	=IF(INDEX(Mode,Build_Index)="number",GOTO(Copy_Numbers))
1681	=IF(INDEX(Mode,Build_Index)="test it",GOTO(Copy_Test))
1682	=ALERT("Invalid Cross Reference Table in Macro, Option Halted",1)
1683	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1684	=SELECT(INDEX(Mode,Build_Index))
1685	=HALT()
1686	
1687	Convert It
1688	
1689	=SET.VALUE(INDEX(Pri_Row,A_Index.2),INDEX(ADS_Row,A_Index.1)*Dollar_Conversion)
1690	=GOTO(Index_Inner_Transfer_Loop)
1691	Copy Test
1692	=IF(ISNUMBER(INDEX(ADS_Row,A_Index.1))=TRUE,GOTO(Copy_Numbers))
1693	Copy It
1694	
1695	=SET.VALUE(INDEX(Pri_Row,A_Index.2),T(INDEX(ADS_Row,A_Index.1)))
1696	=GOTO(Index_Inner_Transfer_Loop)
1697	Copy Numbers
1698	
1699	=SET.VALUE(INDEX(Pri_Row,A_Index.2),INDEX(ADS_Row,A_Index.1))
1700	
1701	Index Inner Transfer Loop
1702	
1703	
1704	=SET.VALUE(Build_Index,Build_Index+1)
1705	=IF(Build_Index<No_of_Col,GOTO(Transfer_Inner_Loop))
1706	
1707	=MESSAGE(TRUE,"Transferring Row ")
1708	=SELECT(INDEX(Pri_Row,1):INDEX(Pri_Row,No_Pri_Row_Col))
1709	=COPY()
1710	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1711	=SELECT(INDEX(IADS,Act y_Count):INDEX(ITot_Calc,Act y_Count))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1712	=PASTE()
1713	
1714	=SET.VALUE(Act_y_Count,Act_y_Count+1)
1715	=GOTO(Index_Build_Outer)
1716	
1717	Fix End
1718	
1719	=Restore_Formulas()
1720	=GOTO(Build_Done)
1721	
1722	Bad Save Formula Call
1723	=ALERT("Invalid Call to Save Formulas. Program Halted",1)
1724	
1725	=HALT()
1726	
1727	
1728	Validate Scores & Precedences { call with {option}[Command][v] }
1729	
1730	=SET.VALUE(Build_Test,2)
1731	=SET.VALUE(Selected_Option,"v")
1732	=Find_Windows()
1733	=CALCULATION(3)
1734	=ECHO(FALSE)
1735	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1736	=SELECT(IColor_ID)
1737	=COPY()
1738	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1739	=SELECT(Code_Id)
1740	=PASTE()
1741	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1742	=SELECT(IReg_Corr:IOther_Corr)
1743	=COPY()
1744	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1745	=SELECT(Reg_Corr:Other_Corr)
1746	=PASTE()
1747	=ACTIVATE(INDEX(Window_Names,ADS_Index))
1748	
1749	=MESSAGE(TRUE,"Validating Scores ADS Entries")
1750	=SET.VALUE(PRINT_ERROR_LOG,"no")
1751	=IF(ALERT("Print list of Validation Test 'Concerns'",1)=TRUE,SET.VALUE(PRINT_ERROR_LOG,"yes"))
1752	=IF(PRINT_ERROR_LOG="no",GOTO(No_Log_Clear))
1753	=SELECT(IADS_No_Err:IError_Message)
1754	=CLEAR(3)
1755	No Log Clear
1756	=Find ADS Size()

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1757	=SET.VALUE(Build_Index_Outer,1)
1758	=SET.VALUE(Build_Test,0)
1759	
1760	Verify Loop
1761	
1762	Verify Message Base
1763	Verifying ADS Spreadsheet. Percent Complete =
1764	Verify Message
1765	Verifying ADS Spreadsheet. Percent Complete =100
1766	=SET.VALUE(Verify_Message,REPLACE(Verify_Message_Base,LEN(Verify_Message_Base),2,INT((Build_Index_Outer/
1767	=MESSAGE(TRUE,Verify_Message)
1768	=ACTIVATE(INDEX(Window_Names,ADS_Index))
1769	Skip Blank Title Rows
1770	=IF(INDEX(ITitle,Build_Index_Outer)="",GOTO(Index_Verify))
1771	Test for Last Entry
1772	=IF(INDEX(ITitle,Build_Index_Outer)=Last_Entry_Test,GOTO(Verify_End))
1773	Test for Valid Code vs. Score
1774	=SET.VALUE(Build_Index,1)
1775	Score Loop
1776	
1777	=IF(GET.FORMULA(INDEX(ICode,Build_Index_Outer))=INDEX(Code_Id,Build_Index),GOTO(Found_Code))
1778	=SET.VALUE(Build_Index,Build_Index+1)
1779	=IF(Build_Index<10,GOTO(Score_Loop))
1780	=GOTO(Next_Test_2)
1781	Found Code
1782	
1783	=SET.VALUE(A.Temp1,INDEX(Reg_Corr,Build_Index)+2.01)
1784	=IF(GET.CELL(5,INDEX(IVOTE_3,Build_Index_Outer))>A.Temp1,GOTO(Verify_Error_1))
1785	=SET.VALUE(A.Temp1,A.Temp1-4.02)
1786	=IF(A.Temp1<0,SET.VALUE(A.Temp1,0))
1787	=IF(GET.CELL(5,INDEX(IVOTE_3,Build_Index_Outer))<A.Temp1,GOTO(Verify_Error_1))
1788	Next Test 1
1789	=IF(INDEX(Other_Corr,Build_Index)="Any",GOTO(Next_Test_2))
1790	=SET.VALUE(A.Temp1,INDEX(Other_Corr,Build_Index)+2.01)
1791	=IF(GET.CELL(5,INDEX(IVOTE_6,Build_Index_Outer))>A.Temp1,GOTO(Verify_Error_2))
1792	=SET.VALUE(A.Temp1,A.Temp1-4.02)
1793	=IF(A.Temp1<0,SET.VALUE(A.Temp1,0))
1794	=IF(GET.CELL(5,INDEX(IVOTE_6,Build_Index_Outer))<A.Temp1,GOTO(Verify_Error_2))
1795	Next Test 2
1796	Now Test for Precedence Error
1797	STEP()
1798	ECHO(TRUE)
1799	=IF(GET.FORMULA(INDEX(ITrans_ID,Build_Index_Outer))="",GOTO(Index_Verify))
1800	=SET.VALUE(Prec_Assigned,GET.CELL(5,INDEX(ITrans_ID,Build_Index_Outer)))
1801	=IF(ISNUMBER(Prec_Assigned)=FALSE,GOTO(Index_Verify))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1802	=IF(Prec_Assigned=0,GOTO(Index_Verify))
1803	
1804	=SELECT(INDEX(IADS_No.,1))
1805	=ERROR(FALSE)
1806	=IF(FORMULA.FIND(Prec_Assigned,2,2,2,1)=FALSE,GOTO(Verify_Error_3))
1807	=ERROR(TRUE)
1808	=SET.VALUE(Prec_Index,GET.CELL(2,SELECTION()))
1809	=SELECT(INDEX(IADS_No.,1))
1810	=SET.VALUE(Prec_Index,Prec_Index-GET.CELL(2,SELECTION()+1))
1811	Flag It If Same Index (Either Error or "Wrap" in Find)
1812	=IF(Prec_Index=Build_Index_Outer,GOTO(Verify_Error_6))
1813	Next Test 3
1814	Flag It If Percedence is "Deferred"
1815	=IF(GET.FORMULA(INDEX(ITrans._ID,Prec_Index))=Defer_Flag,GOTO(Verify_Error_4))
1816	Next Test 4
1817	Flag It If Total Cost Is Zero
1818	=IF(GET.CELL(5,INDEX(ITotal__K,Prec_Index))<0.0001,GOTO(Verify_Error_5))
1819	=GOTO(Index_Verify)
1820	
1821	Fix Log Table (Function Macro)
1822	
1823	Log Message
1824	Precedence is for a Deferred Activity
1825	=IF(PRINT_ERROR_LOG="no",GOTO(Message_Only))
1826	=SET.VALUE(Build_Test,Build_Test+1)
1827	=SELECT(INDEX(IADS_No._Err,Build_Test))
1828	=FORMULA(GET.CELL(5,INDEX(IADS_No.,Build_Index_Outer)))
1829	=SELECT(INDEX(IArea_Err,Build_Test))
1830	=FORMULA(GET.CELL(5,INDEX(IArea,Build_Index_Outer)))
1831	=SELECT(INDEX(ICode_Err,Build_Test))
1832	=FORMULA(GET.CELL(5,INDEX(ICode,Build_Index_Outer)))
1833	=SET.VALUE(A.Temp1," ")
1834	=IF(GET.FORMULA(INDEX(ITrans._ID,Build_Index_Outer))<>"",SET.VALUE(A.Temp1,GET.FORMULA(INDEX(ITrans._ID,8
1835	=IF(ISNUMBER(GET.CELL(5,INDEX(ITrans._ID,Build_Index_Outer)))=TRUE,SET.VALUE(A.Temp1,GET.CELL(5,INDEX(ITr
1836	=SELECT(INDEX(ITrans._ID_Err,Build_Test))
1837	=FORMULA(GET.CELL(5,INDEX(ITrans._ID,Build_Index_Outer)))
1838	=SET.VALUE(A.Temp1," ")
1839	=IF(Error_Id=1,SET.VALUE(A.Temp1,GET.CELL(5,INDEX(IVOTE_3,Build_Index_Outer))))
1840	=IF(Error_Id=2,SET.VALUE(A.Temp1,GET.CELL(5,INDEX("Macintosh HD:Desktop Folder:Trans. Folder:Trans Pri.:Trans.
1841	=SELECT(INDEX(IScore_Err,Build_Test))
1842	=FORMULA(A.Temp1)
1843	=SET.VALUE(A.Temp1," ")
1844	=IF(Error_Id=1,SET.VALUE(A.Temp1,(INDEX(Reg_Corr,Build_Index)+1)))
1845	=IF(Error_Id=2,SET.VALUE(A.Temp1,(INDEX(Other_Corr,Build_Index)+1)))
1846	=SELECT(INDEX(IHi_Score,Build_Test))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1847	=FORMULA(A.Temp1)
1848	=SET.VALUE(A.Temp1," ")
1849	=IF(Error_Id=1,SET.VALUE(A.Temp1,(INDEX(Reg_Corr,Build_Index)-1)))
1850	=IF(Error_Id=2,SET.VALUE(A.Temp1,(INDEX(Other_Corr,Build_Index)-1)))
1851	=IF(A.Temp1<0,SET.VALUE(A.Temp1,0))
1852	=SELECT(INDEX(ILo_Score,Build_Test))
1853	=FORMULA(A.Temp1)
1854	=SELECT(INDEX(ITitle_Err,Build_Test))
1855	=FORMULA(GET.CELL(5,INDEX(ITitle,Build_Index_Outer)))
1856	=SELECT(INDEX(IError_Message,Build_Test))
1857	=FORMULA(Log_Message)
1858	=MESSAGE(TRUE,"Error Message Logged for Printing")
1859	
1860	=MESSAGE(TRUE,Log_Message)
1861	=RETURN()
1862	Message Only
1863	
1864	=MESSAGE(TRUE,Log_Message)
1865	=SELECT(INDEX(IADS_No.,Build_Index_Outer))
1866	=ECHO(TRUE)
1867	=IF(ALERT("Error Found. See Message. Continue Validation",1)=FALSE,HALT())
1868	=ECHO(FALSE)
1869	=RETURN()
1870	
1871	Verify Error 1
1872	=SET.VALUE(Log_Message,"Score Out of Range in 'Reg' Column")
1873	=SET.VALUE(Error_Id,1)
1874	=Fix_Log_Table()
1875	=GOTO(Next_Test_1)
1876	
1877	Verify Error 2
1878	=SET.VALUE(Log_Message,"Score Out of Range in 'Other' Column")
1879	=SET.VALUE(Error_Id,2)
1880	=Fix_Log_Table()
1881	=GOTO(Next_Test_2)
1882	
1883	Verify Error 3
1884	=SET.VALUE(Log_Message,"Precedence Number not Found")
1885	=SET.VALUE(Error_Id,3)
1886	=Fix_Log_Table()
1887	=GOTO(Index_Verify)
1888	
1889	Verify Error 4
1890	=SET.VALUE(Log_Message,"Precedence is for a Deferred Activity")
1891	=SET.VALUE(Error_Id,4)

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A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1892	=Fix_Log_Table()
1893	=GOTO(Next_Test_4)
1894	
1895	Verify Error 5
1896	=SET.VALUE(Log_Message,"Precedence is for a Zero Cost Activity")
1897	=SET.VALUE(Error_Id,5)
1898	=Fix_Log_Table()
1899	=GOTO(Index_Verify)
1900	
1901	Verify Error 6
1902	=SET.VALUE(Log_Message,"Precedence Number not Found Or 'Wrap'")
1903	=SET.VALUE(Error_Id,6)
1904	=Fix_Log_Table()
1905	
1906	Index Verify
1907	=SET.VALUE(Build_Index_Outer,Build_Index_Outer+1)
1908	=IF(Build_Index_Outer<(Length+1),GOTO(Verify_Loop))
1909	
1910	Verify End
1911	
1912	=IF(PRINT_ERROR_LOG="no",GOTO(Set_Return))
1913	=IF(Build_Test=0,ALERT("No Errors Logged",1))
1914	=IF(Build_Test=0,GOTO(Set_Return))
1915	Print Log
1916	=SELECT(INDEX(IADS_No_Err,1):INDEX(IError_Message,Build_Test))
1917	=SET.PRINT.AREA()
1918	=PRINT()
1919	
1920	=GOTO(Set_Return)
1921	
1922	
1923	Sensitivity Tests { call with {Option}[Command][j] }
1924	
1925	=SET.VALUE(Option_j_Start,NOW())
1926	=SET.VALUE(Build_Test,2)
1927	=SET.VALUE(Selected_Option,"j")
1928	=Find_Windows()
1929	=CALCULATION(3)
1930	=ECHO(FALSE)
1931	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1932	=HIDE()
1933	=ACTIVATE(INDEX(Window_Names,Sens_Index))
1934	=HIDE()
1935	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1936	=HIDE()

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1937	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1938	=SET.VALUE(Sens_Print_Test,"no")
1939	=IF(ALERT("Print Sort Calculations",1)=TRUE,SET.VALUE(Sens_Print_Test,"yes"))
1940	=SET.VALUE(Sens_Spreadsheet_Test,"no")
1941	=IF(ALERT("Print Sensitivity Spreadsheet",1)=TRUE,SET.VALUE(Sens_Spreadsheet_Test,"yes"))
1942	
1943	=SET.VALUE(Sens._Type,"Wtd. Score")
1944	=IF(ALERT("Sort by Cost Benefit Ratio Column?",1)=TRUE,SET.VALUE(Sens._Type,"CBR"))
1945	=SET.VALUE(Sensitivity_Test,"yes")
1946	
1947	=IF(Sens._Type="Wtd. Score",Weighted_Score_Sort())
1948	=IF(Sens._Type="CBR",Cost_Score_Sort())
1949	
1950	=CALCULATION(3)
1951	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1952	=SELECT(INDEX(IPri,1))
1953	=FORMULA(1)
1954	=DATA.SERIES(2,1,,1,(Act_y_Count+Deferred_Count))
1955	=IF(Sens_Print_Test="yes",Print_It())
1956	
1957	Save Attribute Weights
1958	=SELECT(INDEX(IWt,1):INDEX(IWt,7))
1959	=COPY()
1960	=ACTIVATE(INDEX(Window_Names,Sens_Index))
1961	=SELECT(INDEX(IWeight,3,1):INDEX(IWeight,9,1))
1962	=PASTE.SPECIAL(3)
1963	=ACTIVATE(INDEX(Window_Names,Macro_Index))
1964	=SELECT(INDEX(Attribute_Weight_Save,1):INDEX(Attribute_Weight_Save,7))
1965	=PASTE.SPECIAL(3)
1966	Clear Remaining Weight Table
1967	=ACTIVATE(INDEX(Window_Names,Sens_Index))
1968	=SELECT(INDEX(IWeight,3,2):INDEX(IWeight,9,43))
1969	=CLEAR(3)
1970	Save Attribute Mnemonics
1971	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1972	=SELECT(INDEX(Imonic,1):INDEX(Imonic,7))
1973	=COPY()
1974	=ACTIVATE(INDEX(Window_Names,Sens_Index))
1975	=SELECT(INDEX(IMnemonic,1):INDEX(IMnemonic,7))
1976	=PASTE.SPECIAL(3)
1977	
1978	Clear Sensitivity Spreadsheet Tables
1979	=SET.VALUE(Find_Loop_Index,1)
1980	Clear Sensitivity Loop
1981	=SET.VALUE(Test_No.,Find_Loop_Index+20)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
1982	=SELECT(INDEX(IArea,Find_Loop_Index):INDEX(IPri_Field,(Test_No.),43))
1983	=CLEAR(3)
1984	=ROW.HEIGHT(13)
1985	=BORDER(,,,,7,.,.,.)
1986	=SET.VALUE(Find_Loop_Index,Find_Loop_Index+20)
1987	=IF(Find_Loop_Index<(Act_y_Count+2),GOTO(Clear_Sensitisty_Loop))
1988	
1989	Save Area, Title, Trans ID & Pri No from Base run
1990	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1991	=SELECT(INDEX(IArea,1):INDEX(IArea,Act_y_Count))
1992	=COPY()
1993	=ACTIVATE(INDEX(Window_Names,Sens_Index))
1994	=SELECT(INDEX(IArea,1):INDEX(IArea,Act_y_Count))
1995	=PASTE.SPECIAL(3)
1996	=ACTIVATE(INDEX(Window_Names,Pri_Index))
1997	=SELECT(INDEX(ITransition_Activity,1):INDEX(ITransition_Activity,Act_y_Count))
1998	=COPY()
1999	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2000	=SELECT(INDEX(ITransition_Activity,1):INDEX(ITransition_Activity,Act_y_Count))
2001	=PASTE.SPECIAL(3)
2002	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2003	=SELECT(INDEX(IDEPT,1):INDEX(IDEPT,Act_y_Count))
2004	=COPY()
2005	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2006	=SELECT(INDEX(ITrans._ID.,1):INDEX(ITrans._ID.,Act_y_Count))
2007	=PASTE()
2008	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2009	=SELECT(INDEX(IPri,1):INDEX(IPri,Act_y_Count))
2010	=COPY()
2011	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2012	=SELECT(INDEX(IPri,1):INDEX(IPri,Act_y_Count))
2013	=PASTE.SPECIAL(3)
2014	
2015	=SET.VALUE(Test_No.,1)
2016	Sens Test Loop
2017	
2018	Set Test Attribite Weights
2019	
2020	
2021	Restore Original Attribite Weights in Pri Spreadsheet
2022	=ACTIVATE(INDEX(Window_Names,Macro_Index))
2023	=SELECT(INDEX(Attribute_Weight_Save,1):INDEX(Attribute_Weight_Save,7))
2024	=COPY()
2025	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2026	=SELECT(INDEX(IWt,1):INDEX(IWt,7))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2027	=PASTE.SPECIAL(3)
2028	
2029	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2030	=SET.VALUE(Sens._Test_Index,INT((Test_No.+1.01)/2))
2031	=IF(GET.CELL(5,INDEX(IWt,Sens._Test_Index))=0,GOTO(Index_Sens_Test))
2032	
2033	
2034	=SET.VALUE(Temp_Wt,Sens._Test_Factor)
2035	=IF(INDEX(Sens_Fact,Test_No.)<0,SET.VALUE(Temp_Wt,(1/Sens._Test_Factor)))
2036	
2037	=SET.VALUE(Temp_Att_Wt,(INDEX(Attribute_Weight_Save,Sens._Test_Index)*Temp_Wt))
2038	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2039	=SELECT(INDEX(IWt,Sens._Test_Index))
2040	=FORMULA(Temp_Att_Wt)
2041	Put Test Attribute Weights in Test Column
2042	=SELECT(INDEX(IWt,1):INDEX(IWt,7))
2043	=COPY()
2044	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2045	=SET.VALUE(Sens._Test_Index,INT((Test_No.-1)*3)+3)
2046	=SELECT(INDEX(IWeight,3,Sens._Test_Index):INDEX(IWeight,9,Sens._Test_Index))
2047	=PASTE.SPECIAL(3)
2048	
2049	
2050	=IF(Sens._Type="Wtd. Score",Weighted_Score_Sort())
2051	=IF(Sens._Type="CBR",Cost_Score_Sort())
2052	
2053	=CALCULATION(3)
2054	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2055	=SELECT(INDEX(IPri,1))
2056	=FORMULA(1)
2057	=DATA.SERIES(2,1,,1,(Act_y_Count+Deferred_Count))
2058	=SET.VALUE(Find_Loop_Index,1)
2059	=IF(Sens_Print_Test="yes",Print_It())
2060	
2061	Find Pri Loop
2062	=ECHO(TRUE)
2063	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2064	=SELECT(INDEX(ITrans._ID.,Find_Loop_Index))
2065	=COPY()
2066	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2067	=SELECT(IPrec_Assigned)
2068	=PASTE()
2069	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2070	=SET.VALUE(Prec_Assigned,GET.CELL(5,INDEX(ITrans._ID.,Find_Loop_Index)))
2071	

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2072	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2073	=SET.VALUE(Find_Index,1)
2074	Find Pri Inner Loop
2075	
2076	=IF(GET.CELL(5,INDEX(IDEPT,Find_Index))=Prec_Assigned,GOTO(Fix_Pri_Inner),GOTO(Index_Pri_Inner))
2077	Index Pri Inner
2078	=SET.VALUE(Find_Index,Find_Index+1)
2079	=IF(Find_Index<(Act_y_Count+1),GOTO(Find_Pri_Inner_Loop),GOTO(ID_Error))
2080	Fix Pri Inner
2081	=SET.VALUE(Prec_Index,Find_Index)
2082	
2083	=IF(GET.CELL(5,INDEX(IDEPT,Prec_Index))=GET.CELL(5,!Prec_Index),GOTO(OK),GOTO(ID_Error))
2084	OK
2085	=SET.VALUE(Prec_Index,GET.CELL(5,INDEX(IPri,Prec_Index)))
2086	
2087	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2088	=SELECT(INDEX(IPri_Field,(Find_Loop_Index+1),Sens._Test_Index))
2089	=FORMULA(Prec_Index)
2090	
2091	=SET.VALUE(Sensitivity_Test_Message,REPLACE(Sensitivity_Test_Message_Base,LEN(Sensitivity_Test_Message_Base),1,Test_No.))
2092	=SET.VALUE(Sensitivity_Test_Message,REPLACE(Sensitivity_Test_Message,22,2,Test_No.))
2093	=MESSAGE(TRUE,Sensitivity_Test_Message)
2094	
2095	=SET.VALUE(Find_Loop_Index,Find_Loop_Index+1)
2096	=IF(Find_Loop_Index<(Act_y_Count+1),GOTO(Find_Pri_Loop))
2097	Index Sens Test
2098	
2099	=SET.VALUE(Test_No.,Test_No.+1)
2100	
2101	=IF(Test_No.<15,GOTO(Sens_Test_Loop))
2102	
2103	Restore Δ Equation
2104	=SELECT(ISave___Equation)
2105	=COPY()
2106	
2107	=SET.VALUE(Test_No.,1)
2108	Restore Delta Inner
2109	
2110	=SET.VALUE(Sens._Test_Index,INT((Test_No.+1.01)/2))
2111	=IF(GET.CELL(5,INDEX(IWt,Sens._Test_Index))=0,GOTO(Index_Restore_Delta))
2112	=SET.VALUE(Sens._Test_Index,INT((Test_No.-1)*3)+4)
2113	=SELECT(INDEX(IPri_Field,2,Sens._Test_Index):INDEX(IPri_Field,(Act_y_Count+1),Sens._Test_Index))
2114	=PASTE.SPECIAL(2)
2115	Index Restore Delta
2116	=SET.VALUE(Test No.,Test No.+1)

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2117	=IF(Test_No.<15,GOTO(Restore_Delta_Inner))
2118	
2119	Clear Sensitivity Test
2120	=SET.VALUE(Sensitivity_Test,"no")
2121	Restore Attribute Weights
2122	=ACTIVATE(INDEX(Window_Names,Macro_Index))
2123	=SELECT(INDEX(Attribute_Weight_Save,1):INDEX(Attribute_Weight_Save,7))
2124	=COPY()
2125	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2126	=SELECT(INDEX(IWt,1):INDEX(IWt,7))
2127	=PASTE.SPECIAL(3)
2128	=CALCULATION(1)
2129	
2130	=SET.VALUE(Option_J_End,NOW())
2131	=SET.VALUE(Option_J_Time,(Option_J_End-Option_J_Start)*1440)
2132	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2133	=SELECT(IOption_J_Run_Time)
2134	=FORMULA(Option_J_Time)
2135	=SET.VALUE(Selected_Option,"J")
2136	=ACTIVATE(INDEX(Window_Names,Pri_Index))
2137	=UNHIDE()
2138	=ACTIVATE(INDEX(Window_Names,Macro_Index))
2139	=UNHIDE()
2140	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2141	=IF(Sens_Spreadsheet_Test="no",GOTO(Set_Return))
2142	=SELECT(INDEX(IArea,1):INDEX(IPri_Field,(Act_y_Count+1),43))
2143	=SET.PRINT.AREA()
2144	=PRINT()
2145	=ACTIVATE(INDEX(Window_Names,Sens_Index))
2146	=UNHIDE()
2147	=MESSAGE(TRUE,"Sensitivity Spradsheet Printed")
2148	=GOTO(Set_Return)
2149	=RETURN()
2150	
2151	ID Error
2152	=ALERT("Error in Locating Trans ID Index, Step Macro",1)
2153	=STEP()
2154	=GOTO(Find_Pri_Loop)
2155	=RETURN()
2156	
2157	
2158	Build Input Data Sheets (from Transition ADS's File)
2159	{ Call with [Option][Command][I] }
2160	

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2161	
2162	=ECHO(FALSE)
2163	=CALCULATION(3)
2164	=SET.VALUE(Selected_Option,"b")
2165	=SET.VALUE(Build_Test,3)
2166	=Find_Windows()
2167	=ACTIVATE(INDEX(Window_Names,ADS_Index))
2168	=Find_ADS_Size()
2169	
2170	=IF(ALERT("Print Only a Blank Data Sheet?",1)=TRUE,GOTO(DS_Blank))
2171	=IF(ALERT("Print All Data Sheets?",1)=TRUE,GOTO(DS_All))
2172	=SET.VALUE(First_ID,INPUT("Enter First Activity ID to Print",1,"Print Data Sheet",,,,))
2173	=IF(First_ID=FALSE,GOTO(DS_Quit))
2174	=SET.VALUE>Last_ID,INPUT("Enter Last Activity ID to Print",1,"Print Data Sheet",,,,))
2175	=IF>Last_ID=FALSE,GOTO(DS_Quit))
2176	=GOTO(Set_DS_Loop)
2177	DS Quit
2178	=ALERT("Invalid Entry, Option Halted",1)
2179	=RETURN()
2180	DS Blank
2181	=SET.VALUE(First_ID,"Blank DS")
2182	=GOTO(DS_Do_All)
2183	DS All
2184	=SET.VALUE(First_ID,"All DS")
2185	
2186	Set DS Loop
2187	
2188	=SET.VALUE(Act_y_Count,1)
2189	
2190	DS Outer Loop
2191	
2192	=SET.VALUE(DS_Message,REPLACE(DS_Message_Base,LEN(DS_Message_Base),2,INT((Act_y_Count/Le
2193	SET.VALUE(Sensitivity_Test_Message,REPLACE(Sensitivity_Test_Message,22,2,Test_No.))
2194	=MESSAGE(TRUE,DS_Message)
2195	=IF(GET.FORMULA(INDEX(ITitle,Act_y_Count))="",GOTO(DS_Outer_Index.2))
2196	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IADS_No.,Act_y_Count)))
2197	=IF(ISNUMBER(DS_Temp_Data)=FALSE,GOTO(DS_Outer_Index.2))
2198	
2199	Test for All or Blank
2200	=IF(First_ID="All DS",GOTO(DS_Do_All))
2201	=IF(First_ID="Blank DS",GOTO(DS_Do_All))
2202	Test for within ID Range
2203	=IF(DS_Temp_Data<First_ID,GOTO(DS_Outer_Index.2))
2204	=IF(DS_Temp_Data>Last_ID,GOTO(DS_Done))
2205	DS Do All

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2206	Set Activity ID
2207	=SELECT(IDS_Activity_ID)
2208	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2209	
2210	Set Area
2211	=SET.VALUE(DS_Temp_Data,GET.FORMULA(INDEX(IArea,Act_y_Count)))
2212	=SELECT(IDS_Area)
2213	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2214	=MESSAGE(TRUE,"Setting Precedence")
2215	Set Precedence
2216	=SET.VALUE(DS_Temp_Data,GET.FORMULA(INDEX(ITrans._ID,Act_y_Count)))
2217	=SELECT(IDS_Precedence)
2218	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2219	=MESSAGE(TRUE,"Setting ADS #")
2220	Set In ADS
2221	=SET.VALUE(DS_Temp_Data,GET.FORMULA(INDEX(IADS,Act_y_Count)))
2222	=SELECT(IDS_In_ADS_?)
2223	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2224	=MESSAGE(TRUE,"Setting Driver Code")
2225	Set Driver Code
2226	=SET.VALUE(DS_Temp_Data,GET.FORMULA(INDEX(ICode,Act_y_Count)))
2227	=SELECT(IDS_Driver_Code)
2228	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2229	=MESSAGE(TRUE,"Setting Title")
2230	Set Title
2231	=SET.VALUE(DS_Temp_Data,GET.FORMULA(INDEX(ITitle,Act_y_Count)))
2232	=SELECT(IDS_Title)
2233	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2234	
2235	=SET.VALUE(DS_Index,1)
2236	DS Inner Loop
2237	
2238	Set FY
2239	=IF(DS_Index>6,GOTO(Set_Current_FY))
2240	=SET.VALUE(DS_Temp_Index,INDEX(DS_Loc,DS_Index))
2241	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IK,DS_Index)))
2242	=SELECT(INDEX(IData_Sheet,2,DS_Temp_Index))
2243	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2244	=MESSAGE(TRUE,"Setting FY")
2245	
2246	Set Current FY\$
2247	=IF(DS_Index<>1,GOTO(Set__1_FY))
2248	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(I_94_K,Act_y_Count)))
2249	=SELECT(INDEX(IData_Sheet,3,INDEX(DS_Loc,DS_Index)))
2250	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2251	=MESSAGE(TRUE,"Setting Scores")
2252	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IVOTE_2,Act_y_Count)))
2253	=SELECT(INDEX(IData_Sheet,10,INDEX(DS_Loc,DS_Index)))
2254	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2255	
2256	=GOTO(DS_Inner_Index)
2257	
2258	Set +1 FY\$
2259	=IF(DS_Index<>2,GOTO(Set__2_FY))
2260	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(I_95_K,Act_y_Count)))
2261	=SELECT(INDEX(IData_Sheet,3,INDEX(DS_Loc,DS_Index)))
2262	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2263	
2264	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IVOTE_3,Act_y_Count)))
2265	=SELECT(INDEX(IData_Sheet,10,INDEX(DS_Loc,DS_Index)))
2266	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2267	
2268	=GOTO(DS_Inner_Index)
2269	
2270	Set +2 FY\$
2271	=IF(DS_Index<>3,GOTO(Set__3_FY))
2272	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(I_96_K,Act_y_Count)))
2273	=SELECT(INDEX(IData_Sheet,3,INDEX(DS_Loc,DS_Index)))
2274	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2275	
2276	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IVOTE_4,Act_y_Count)))
2277	=SELECT(INDEX(IData_Sheet,10,INDEX(DS_Loc,DS_Index)))
2278	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2279	
2280	=GOTO(DS_Inner_Index)
2281	
2282	Set +3 FY\$
2283	=IF(DS_Index<>4,GOTO(Set__4_FY))
2284	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(I_97_K,Act_y_Count)))
2285	=SELECT(INDEX(IData_Sheet,3,INDEX(DS_Loc,DS_Index)))
2286	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2287	
2288	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IVOTE_5,Act_y_Count)))
2289	=SELECT(INDEX(IData_Sheet,10,INDEX(DS_Loc,DS_Index)))
2290	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2291	
2292	=GOTO(DS_Inner_Index)
2293	
2294	Set +4 FY\$
2295	=IF(DS_Index<>5,GOTO(Set__5_FY))

Attachment E-1

A	
1	A Macro-Trans. Pri. (Macro Program for SRS Transition Prioritization)
2296	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(I_98_K,Act_y_Count)))
2297	=SELECT(INDEX(IData_Sheet,3,INDEX(DS_Loc,DS_Index)))
2298	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2299	
2300	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IVOTE_6,Act_y_Count)))
2301	=SELECT(INDEX(IData_Sheet,10,INDEX(DS_Loc,DS_Index)))
2302	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2303	
2304	=GOTO(DS_Inner_Index)
2305	
2306	Set +5 FY\$
2307	=IF(DS_Index<>6,GOTO(Set__6_FY))
2308	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(I_99_K,Act_y_Count)))
2309	=SELECT(INDEX(IData_Sheet,3,INDEX(DS_Loc,DS_Index)))
2310	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2311	
2312	=SET.VALUE(DS_Temp_Data,GET.CELL(5,INDEX(IVOTE_7,Act_y_Count)))
2313	=SELECT(INDEX(IData_Sheet,10,INDEX(DS_Loc,DS_Index)))
2314	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2315	
2316	=GOTO(DS_Inner_Index)
2317	
2318	Set +6 FY\$
2319	
2320	=IF(DS_Index<7,GOTO(DS_Inner_Index))
2321	=SET.VALUE(DS_Temp_Data,GET.FORMULA(INDEX(ICat,Act_y_Count)))
2322	=SELECT(INDEX(IData_Sheet,3,11))
2323	=IF(First_ID="Blank DS",FORMULA(""),FORMULA(DS_Temp_Data))
2324	DS Inner Index
2325	
2326	=SET.VALUE(DS_Index,DS_Index+1)
2327	=IF(DS_Index<8,GOTO(DS_Inner_Loop))
2328	
2329	DS Outer Index
2330	=MESSAGE(TRUE,"Printing Data Sheet")
2331	=PRINT()
2332	DS Outer Index.2
2333	=IF(First_ID="Blank DS",GOTO(DS_Done))
2334	=SET.VALUE(Act_y_Count,Act_y_Count+1)
2335	=IF(Act_y_Count<(Length+1),GOTO(DS_Outer_Loop))
2336	DS Done
2337	=BEEP()
2338	=MESSAGE(TRUE,"Opriion Complete")
2339	=BEEP()
2340	=RETURN()

DATE

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7/21/94

END