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MARTIN MARIETTA

**Facility Interface Capability
Assessment (FICA) USER MANUAL**

MANAGED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

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Facility Interface Capability Assessment (FICA) USER MANUAL

September 1995

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EXECUTIVE SUMMARY

The U.S. Department of Energy's (DOE) Office of Civilian Radioactive Waste Management (OCRWM) is responsible for developing the Civilian Radioactive Waste Management System (CRWMS) to accept spent nuclear fuel from commercial facilities. In support of the development of the CRWMS, OCRWM sponsored the Facility Interface Capability Assessment (FICA) project. The objective of this project was to assess the capability of each commercial spent nuclear fuel (SNF) storage facility, at which SNF is stored, to handle various SNF shipping casks.

The purpose of this report is to describe the FICA computer software and to provide the FICA user with a guide on how to use the FICA system. The FICA computer software consists of two executable programs: the FICA Reactor Report program and the FICA Summary Report program (written in the *CA-Clipper* version 5.2 development system). The complete FICA software system is contained on either a 3.5 in. (double density) or a 5.25 in. (high density) diskette and consists of the two FICA programs and all the database files (generated using *dBASE III*). The FICA programs are provided as "stand alone" systems and neither the *CA-Clipper* compiler nor *dBASE III* is required to run the FICA programs.

The steps for installing the FICA software system and executing the FICA programs are described in this report. Instructions are given on how to install the FICA software system onto the hard drive of the PC and how to execute the FICA programs from the FICA subdirectory on the hard drive. Both FICA programs are menu driven with the up-arrow and down-arrow keys used to move the cursor to the desired selection.

The FICA Reactor Report program report provides the complete set of all FICA database data items for a selected reactor facility. The printed report is preceded by a title/disclaimer page.

The FICA Summary Report program provides the following reports: Automated Cask Assessment Report, Cask Receiving Area — Access Limits Report, Cask Receiving Area — Design Limits Report, Cask Upending Area — Access Limits Report, Cask Upending Area — Design Limits Report, Cask Decontamination Area — Access Limits Report, Cask Decontamination Area — Design Limits Report, Cask Set-Down (Loading) Area — Access Limits Report, Cask Intermediate Set-Down Level Report, Cask Set-Down (Loading) Area — Design Limits Report, Cask Set-Down (Loading) Area — Auxiliary Data Report, Cask-Handling Summary — Assessed Capabilities Report, Cask-Handling Summary — Current Cask Limits Report, Cask Shipment Experience Report, Crane and Crane Hook Parameters Report, Crane Clearances Report, Crane Hook Report, Pool Dimensions Report, Site Addresses Report, Current Utility Contact Report, Summary of the Site Visit Report, Transportation — Barge Access Report, Transportation — On-Site Capabilities Report, and Transportation — Rail Access Report.

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PREFACE

This report presents a description of the FICA software and provides the FICA user with a guide on how to use the FICA system. The FICA software provides reports of the results of the technical work completed in the FICA project. This FICA project involved visits to, and the collection and analysis of data from, all 121 of the civilian nuclear reactors and one fuel storage facility (located at Morris, Illinois) from which spent fuel will be shipped to the CRWMS. Data collection was conducted and selected information updates were made between 1986 and 1991. During the visits, each facility's current cask-handling capability was determined, and the data collected were analyzed to assess the potential capability of that facility. The Nuclear Assurance Corporation (NAC) was responsible for data collection, completion of facility assessments, the initial programming and data entry; and the CRWMS - M&O was responsible for the modification of, and enhancements to the FICA software and for producing this report. Technical data relating to each facility's cask-handling capability are presented. In addition, the database is available in electronic format and can be obtained upon request to:

Civilian Radioactive Waste Management System
Management and Operating Contractor
R. R. MacDonald
2650 Park Tower Drive
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Vienna, VA 22180
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1. INTRODUCTION

The U.S. Department of Energy's (DOE) Office of Civilian Radioactive Waste Management (OCRWM) is responsible for developing the Civilian Radioactive Waste Management System (CRWMS) to accept spent nuclear fuel from commercial facilities. In support of the development of the CRWMS, OCRWM sponsored the Facility Interface Capability Assessment (FICA) project. The objective of this project was to assess the capability of each commercial spent nuclear fuel (SNF) storage facility to handle various SNF shipping casks.

The FICA covered 121 reactors and 1 storage site. The results from the FICA are contained in 104 reports, one for each pool (some pools serve two reactors) or storage site. Much of the data from these reports have also been recorded on diskette as the FICA database. Supporting software has also been developed to provide convenient access to the data and to provide printed summary reports. This report, the FICA User's Manual, describes the information in the database and how to access it.

Although this information is believed to be accurate at the time it was collected and the software is believed to access this data correctly, the data and software are provided on an "as is" basis. In no event will DOE be liable for direct, indirect, incidental, or consequential damages resulting from any defect in the data or software.

It is important to recognize that the FICA task did not include any of the detailed technical analyses that would be required for implementing the potential changes identified. Therefore, there is no certainty that the assessed changes can be achieved. Demonstration that the potential changes could be achieved would have required technical analyses and the evaluation of licensing requirements that were beyond the scope of this task.

Nothing in this database is intended (1) to recommend judgment on whether any of the administrative changes, licensing changes, or physical modifications considered should be completed or (2) to imply that the utility or operator for any facility has expressed the intention of completing any facility changes.

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2. FICA SOFTWARE

The FICA computer software consists of two programs:

- FICA Reactor Report program -- provides a report of either part or all of the FICA database fields associated with a single reactor.
- FICA Summary Report program -- provides reports which contain specific FICA database fields across all reactors.

The FICA programs were written in the *CA-Clipper*™ version 5.2 development system for database applications. The FICA database was generated using *dBASE III*™.

2.1 FICA INSTALLATION

The complete FICA software system is contained on either a 3.5 in. (double density) or a 5.25 in. (high density) diskette and consists of the two FICA programs and all the database files. Neither the *CA-Clipper* compiler nor *dBASE III* is required to run the FICA programs. A hard drive with a minimum of 6.0 MB available is needed to install the FICA software system. The FICA installation must be done in Disk Operating Software™ (DOS).

The steps for installing the FICA software system are (at the DOS prompt):

- STEP 1** Insert the FICA diskette in drive a: (or b:).
- STEP 2** Switch to the drive with the FICA diskette by typing:
 A: [or B:] <Enter>
- STEP 3** Install the FICA programs and database files by typing:
 INSTALL <Enter>

Installation creates a subdirectory on the hard drive, C:\FICA_NEW, and copies in the complete FICA software system.

2.2 FICA REACTOR REPORT PROGRAM

2.2.1 Program Execution Procedures

The steps for executing the FICA Reactor Report program are:

- STEP 1** Enter the FICA subdirectory on the hard drive by typing:

- STEP 1** Enter the FICA subdirectory on the hard drive by typing:
CD \FICA_NEW <Enter>
- STEP 2** Execute the FICA Reactor Report program by typing:
C_FICA <Enter>
- STEP 3** The site/reactor selection menu (Fig. 1) appears on the screen. By means of the up-arrow and down-arrow keys move the cursor to the desired selection and then press the **<Enter>** key to select the Site ID.
- STEP 4** The Reactor ID(s) corresponding to the selected Site ID appear on the same menu (Fig. 2). By means of the up-arrow and down-arrow keys move the cursor to the desired selection and then press the **<Enter>** key to select the Reactor ID.
- STEP 5** The report selection menu (Fig. 3) appears on the screen. By means of the up-arrow and down-arrow keys move the cursor to the desired selection and then press the **<Enter>** key to select the option.

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FACILITY INTERFACE CAPABILITY ASSESSMENT (FICA) REACTOR REPORT

Select the SITE ID from this menu —>

SITE ID :

Position with: 11 - Press <Enter> to select choice

- 3 MILE IS
- 9 MILE PT
- ARKANSAS NUC
- BEAVER UV
- BIG ROCK
- BRAIDWOOD
- BROWNS FERRY
- BRUNSWICK
- BYRON
- CALLAWAY
- CALVERT CLFS
- CATAWBA
- CLINTON
- CLINTON-1
- COMANCHE
- COOPER
- CRYSTAL R
- DAVIS-BESSE
- DC COOK
- DIABLO CN

Figure 1. FICA Reactor Report Program — site ID selection.

FACILITY INTERFACE CAPABILITY ASSESSMENT (FICA) REACTOR REPORT

Select the REACTOR ID for TURKEY POINT from this menu —> **TURKEY PT3**
TURKEY PT4

SITE ID : TURKEY POINT

REACTOR ID :

Position with: ↑↓ - Press <Enter> to select choice

Figure 2: FICA Reactor Report Program — reactor ID selection.

The options consist of:

- **SELECT NEW SITE ID/REACTOR ID** - this selection returns the user to the site/reactor selection menu (STEP 3).
- **EXIT PROGRAM** - this selection terminates the program.
- **OUTPUT COMPLETE FICA REPORT** - this selection outputs all sections of the FICA Reactor Report for the selected Site ID/Reactor ID.
- **Select an individual section** - this selection outputs a single section of the FICA Reactor Report for the selected Site ID/Reactor ID. The selections are:

SITE/REACTOR DATA SECTIONS

Provides background information consisting of site data, reactor data, current contact data, and utility data.

REPORT SELECTION MENU	
Select the output report content —>	*** OUTPUT COMPLETE FICA REPORT ***
	Site/Reactor Data Sections
	Off-Site/On-Site Data Sections
	General Reactor Data Section
	Shipment Experience Section
	Crane Data Section
	Spent-Fuel Pool Data Section
	Cask Handling Data Section
	Cask Handling Summary Data Section
	*** SELECT NEW SITE ID/REACTOR ID ***
	*** EXIT PROGRAM ***
SITE ID : TURKEY POINT REACTOR ID : TURKEY PT3	
Position with: ↑↓ - Press <Enter> to select choice	

Figure 3: FICA Reactor Report Program — report selection menu.

OFF-SITE/ON-SITE DATA SECTIONS

Provides off-site road data, off-site railhead or rail spur data, off-site barge or ship loading facility data, on-site road data, on-site railhead or rail spur data, and on-site barge or ship loading facility data.

GENERAL REACTOR DATA SECTION

Provides general background information regarding the utility's preferred shipping casks.

SHIPMENT EXPERIENCE SECTION

Provides truck, rail, and barge or ship shipment experience including cask-handling experience.

CRANE DATA SECTION

Provides crane description data, crane clearances, crane hook data, and cask drop analysis.

SPENT FUEL POOL DATA SECTION

Provides for each spent fuel pool the pool name, type, status, configuration, earthquake protection, pool dimensions, storage cell data, and related pools (connected or shared).

CASK-HANDLING DATA SECTION

Provides a description of the cask receiving area, cask upending area, cask decontamination area, cask set-down (loading) area access, cask intermediate set-down level, and cask set-down (loading) area.

CASK-HANDLING SUMMARY DATA SECTION

Provides a summary of the information in the preceding data sections including on-site vehicle limits, cask limits, cask-handling capability based on DOE reference parameters, cask-handling capability based on second level assessment cask parameters, and overweight cask comments.

STEP 6

After selecting either the complete FICA Reactor Report or a single section of the FICA Reactor Report, the Output Options menu (Fig. 4) appears on the screen indicating the three possible destinations of the output: (1) send the output directly to the printer, (2) send the output to a file in the current subdirectory, or (3) display the output on the screen only. The default setting is "3" for displaying the output on the screen only. Select the option by typing in the appropriate number.

If output option "1" is selected, the report is sent directly to the printer. While the program is processing, the message "REPORT BEING PRINTED ON xxxx" is displayed on the screen where "xxxx" is the print device specified. The default print device is LPT2. To change the default setting, edit the PRINT.UNT file prior to executing the FICA Reactor Report program.

If output option "2" is selected, the user is prompted to enter the name of the file to receive the report in the current subdirectory. The default name of the file is "FICAFILE.TXT". While the program is processing, the message "REPORT BEING GENERATED ON FILE: xxxx" is displayed on the screen where "xxxx" is the file name.

If output option "3" is selected, the user reviews the report output on the screen only and is moved forward from screen to screen by means of a prompt.

After completing the selected Site ID/Reactor ID report, the program returns to the report selection menu (STEP 5).

— OUTPUT OPTIONS MENU —

SITE ID : TURKEY POINT REACTOR ID : TURKEY PT3
REPORT CONTENTS : Cask Handling Data Section

1 = Send Output Directly to the Printer
2 = Send Output to File (Filename Entered by User)
3 = Display Output on Screen Only

Your selection: 3

Figure 4. FICA Reactor Report Program — output options menu.

2.2.2 Report Content

The FICA Reactor report for a facility includes data from the initial site visit and any subsequent data updates. The full printed report has a title/disclaimer page preceding the report sections.

The FICA Reactor Report program uses the site ID field to access to site data within the FICA database data files. This ensures that the same site data is used for all reactors on the site.

2.2.2.1 Site/Reactor Data Sections

The FICA Reactor Report program printout begins with the Site and Reactor Data sections (presented as a single section) which provide the following background information:

- (a) The site part provides the site name, county in which the site is located, site telephone number, site mailing address, and site shipping address.
- (b) The reactor part provides the reactor name, Integrated Nuclear Information System (INIS) Unit ID, reactor type, Nuclear Steam Supply System (NSSS) vendor, Architect/Engineer,

reactor thermal and electrical ratings, operating status, utility name, utility holding company name, United States Nuclear Regulatory Commission (NRC) Docket Number, and DOE contract number. The INIS Unit ID and the NRC Docket Number are assigned to individual reactors by DOE and the NRC, respectively. The DOE contract number is assigned by DOE to a specific utility.

- (c) The current contact part provides the contact's name, position, telephone number, facsimile (FAX) number, and normal work station (either the reactor site or the utility site). The contact is either the person who was the formally designated utility staff member or the main point of contact during the performance of the FICA project. Where more than one person could have been identified, the utility was asked to advise which was the appropriate contact. Although the data records were updated through the period of the data collection and site visit program, utility personnel changes are likely to have occurred. Users should bear this in mind if the database is used to determine utility contacts.
- (d) The utility part provides the utility's office telephone number, office mailing address, and office shipping address.

In addition the General Site/Reactor Header comment clarifies values in the above data fields and the General Site/Reactor comment provides additional relevant information, such as a statement regarding other reactor units that the utility operates at the same site.

2.2.2.2 Off-Site Data Section

The Off-Site Data Section provides the following information describing facilities located near, but not on, the plant site:

- (a) The road part identifies the nearest interstate highway to the plant site, the operational status of the interstate highway, and the off-site road route to the nearest interstate highway (as indicated by the utility). In addition the off-site road route characteristics of total distance to the interstate highway, distance under utility control, and vehicle limits (weight, height, length, and width) are provided. However, in almost all cases, the utility response indicated that there were no off-site vehicle limits which would restrict shipment of any cask to the site.
- (b) The railhead or rail spur part identifies whether a railhead or rail spur is located on-site.

If the data field indicates "N" (for "No"), a description of the off-site railhead or rail spur name is provided along with its operational status, weight limit, carrier name, and owner. In addition, the identification of the off-site road route to the railhead or rail spur is given as well as its total distance, distance under utility control, and vehicle limits (weight, height, length, and width).

If the data field indicates "Y" (for "Yes"), a comment is given to refer to the on-site railhead or rail spur part of the On-Site Data Section (Section 2.2.2.3).

- (c) The barge or ship loading facility part identifies whether a barge or ship loading facility is located on-site.

If the data field indicates "N", the off-site barge or ship loading facility name is provided along with its operational status, limits (weight, height, and depth/draft), and waterway name. In addition the off-site bridge height limit is given. The identification of the off-site road route to the barge or ship loading facility is given as well as its total distance, distance under utility control, and vehicle limits (weight, height, length, and width).

If the data field indicates "Y", a comment is given to refer to the off-site barge or ship loading facility part of the On-Site Data Section (Section 2.2.2.3).

This section also includes comments which provide clarification to the data and information that may be helpful to the data user. Detailed data on all off-site routes and facilities can be found in the Near Site Transportation Infrastructure (NSTI) database.

2.2.2.3 On-Site Data Section

The On-Site Data Section provides the following information describing facilities located on the plant site:

- (a) The road part identifies on-site road vehicle limits of total weight, weight per tandem axle, length, width, and height. Typically the utility does not know the weight limits unless the on-site roads were used for a specific, previous heavy load shipment. However the utility normally owns the on-site roads; consequently the load-bearing capacity of the road is not likely to limit transport of heavy loads. The utility can move any size or weight of load, as long as the safe operation of the plant is not jeopardized. Additionally the availability of a site transporter or tractor for moving a cask along the on-site roads is also given. If "Y" is indicated, the transporter or tractor type, weight, and capacity are given.
- (b) The railhead or rail spur part identifies whether a railhead or rail spur is located on-site.

If the data field indicates "Y", a description of the on-site railhead or rail spur name is provided along with its operational status, weight limit, carrier name, and owner. A second data field indicates whether the on-site rail spur extends into the cask receiving or upending area. If the data field indicates "N", then the distance from the rail spur to the cask receiving or upending area door is given. The side clearance limit between the rail spur and the cask receiving or upending area walls is also provided. A third data field indicates the availability of a rail car puller at the site for moving rail cars along the on-site spur. If the data field indicates "Y", then the rail car puller type, owner, maximum rail spur access grade, and maximum rail spur access angle of curvature are given.

If the data field indicates "N", a comment is given to refer to the off-site railhead or rail spur part of the Off-Site Data Section (Section 2.2.2.2).

- (c) The barge or ship loading facility part identifies whether a barge or ship loading facility is located on-site.

If the data field indicates "Y", the on-site barge or ship loading facility name is provided along with its operational status, name of the waterway, distance to the cask receiving or upending area door, limits (weight, height, and depth/draft), and on-site and off-site bridge height limits.

If the data field indicates "N", a comment is given to refer to the off-site barge or ship loading facility part of the Off-Site Data Section (Section 2.2.2.2).

This section also includes comments which provide clarification to the data and information that may be helpful to the data user.

2.2.2.4 General Reactor Data Section

The General Reactor Data Section provides information describing the utility's preferred shipping cask, dry storage capability status, type and number of long-term casks on site, and its plans to implement alternative technologies for spent fuel storage. This section also includes comments which provide clarification of the data and additional information such as weather restrictions concerning cask-handling at the site.

2.2.2.5 Shipment Experience Section

The Shipment Experience Section provides information describing the utility's previous cask shipment and cask-handling experience at the plant. The first three data fields (with values of either "Y" or "N") indicate whether the utility has had experience in shipping casks by truck, rail, and barge or ship. Another data field indicates whether the reactor has had any cask-handling experience. If the data field indicates "Y", then the cask type names, last operations date, whether problems have been encountered, and average cask turnaround times are provided. Some utilities have handled spent fuel shipping casks as an exercise to demonstrate their capabilities but have not actually shipped spent fuel from the site. This section also includes comments which provide clarification of the data and additional information that may be helpful to the user.

2.2.2.6 Crane Data Section

The Crane Data Section provides the following information describing crane facilities located at the site:

- (a) The crane part identifies the crane designation (POLAR or BRIDGE), vendor, design capacity, operating capacity, type (REDUNDANT or NON-REDUNDANT), auxiliary crane operating capacity, and whether the site procedures allow wetting of the crane hook. Additionally the crane clearances to the hook palm in the uppermost position from the operating area floor and from the upending area floor, and the height of the highest permanent obstruction in the cask-handling path above the operating area floor are given. Ordinarily the clearance from the operating area floor to the hook palm minus the height of

the highest obstruction limits movement from the cask receiving area to the cask set-down (loading) area. However, in some plant designs the suspended cask is not lifted above the operating area floor, and consequently cask movement is not limited by this clearance.

- (b) The crane hook part identifies the configuration (J or SISTER), palm radius, maximum width, maximum thickness, distance from the center of palm radius to the bottom of hook, distance between the centers of the SISTER hook palm radii, diameter of the crane pin hole in the hook or the pendant, distance from crane hook palm (bottom of the interior surface) to the bottom surface of the block, and vertical distance from the center of palm radius to the center of pin hole. Depending on the crane hook configuration, some of these data fields are not applicable. For example, for a J-hook the data field that identifies the distance between the centers of the SISTER hook palm radii is left blank.

In addition, the date of the most recent cask-drop analysis for the plant is also provided. Two data fields (using "Y" or "N") indicate whether the crane is single failure proof per the requirements of NUREG-0612 and whether cask travel is required over safety-related equipment. Utility supplied information was used as input to these fields.

This section includes comments which provide clarification of the data and additional information that may be helpful to the data user.

2.2.2.7 Spent Fuel Pool Data Section

The Spent Fuel Pool Data Section provides the following information describing each on-site spent fuel pool and storage rack. The INIS Unit ID for each spent fuel pool was entered into the FICA database directly from RW-859.

- (a) The pool identification part provides the pool name, fuel type, current operating status, configuration, and whether there are any earthquake, hurricane, or tornado protection shipping requirements.

If the spent fuel pool is associated with only one reactor, the spent fuel pool name is the reactor name followed by the words "SPENT-FUEL POOL." If two or more separate pools are associated with a single reactor, the utility designation of the individual pool names is used (e.g., pool A and B), and information is provided for each pool. If the site has an Independent Spent Fuel Storage Installation (ISFSI), the ISFSI is treated as a spent fuel pool with appropriate notes in the comment data field. Some Boiling Water Reactors (BWRs) have upper containment pools which cannot be used to store spent fuel during reactor operation, but the rack locations in the upper containment pools may be used when accounting for the plant Full Core Reserve (FCR) capability. For these cases, appropriate entries are made in the comment data field for the main spent fuel pool.

The fuel type is specified as BWR and/or Pressurized Water Reactor (PWR). A small number of spent fuel pools contain some racks for BWR bundles and some racks for PWR assemblies. Such cases are noted in the comment data field.

The configuration refers to the geometric shape of the spent fuel pool such as rectangular or square. Where the cask set-down (loading) area is within a rectangular or square pool but has walls and a gate to allow the water to be drained independently of the storage area, the pool configuration is given as L-SHAPED.

- (b) The pool dimensions part identifies the spent fuel pool length, width, depth, water depth, and maximum static floor loading. Length is taken as the larger of two dimensions shown in a plan view of the pool.
- (c) The storage cell data part consists of five data fields. The first field identifies the maximum width of a fuel assembly to be stored in the racks. Since many spent fuel pools are operated as two regions with different conditions for storing assemblies in each region based on the initial enrichment and burnup, the second and third data fields provide the center-to-center storage cell spacing and the cross-sectional dimension for storage cells for REGION 1 and the fourth and fifth data fields provide similar data for REGION 2.
- (d) The connected pools part identifies whether the spent fuel pool is connected with another storage pool. If the data field indicates "Y", the interconnected pools are identified. In order for pools to be considered connected, the utility must be able to transfer spent fuel assemblies from one pool to another without the use of a cask (i.e., a fuel transfer canal must connect the two pools).
- (e) The shared pools part identifies whether the spent fuel pool is shared by more than one reactor. If the data field indicates "Y", the sharing reactors are identified. Sharing means that more than a single reactor can discharge spent fuel from the core to the spent fuel pool. Transshipment of fuel from one spent fuel pool to another does not mean that the spent fuel pool is shared by two reactors.

This section also includes comments which provide clarification of data and additional information that may be useful to the data user.

2.2.2.8 Cask-Handling Data Section

The Cask-Handling Data Section, the largest section in the FICA database, provides information describing the design features of the cask receiving area, cask upending area, cask decontamination area, cask set-down (loading) area access, cask intermediate set-down level, and cask set-down (loading) area. In addition, procedural restrictions to cask-handling are provided. The information in this section is important because the size of the cask transporter may be limited by the access features described. It should be noted that in determining the most limiting dimensional clearances in the cask transport travel pathways, the different limits do not necessarily occur at the same point on the pathway.

- (a) The cask receiving area part identifies the following cask receiving area information:

- (1) **Access Limits** — Provides the most limiting access features (configuration, diameter/width, and height/length) of the cask transporter pathway from the site gate to the cask receiving area. In most cases, the door to the cask receiving area is the most limiting access feature. For many BWRs, the cask receiving area is accessed through an air lock building whose doors may be the limiting access feature.
- (2) **Building Arrangement** — This is described by three data fields. The first data field indicates whether the cask receiving area is enclosed. In most plant designs the cask receiving area is located in an enclosed building, but some plants have outdoor cask receiving areas defined by gantry structures which support the cask-handling crane. The second data field indicates whether the cask receiving area contains an air lock. The final data field indicates whether there is an air lock other than the one in the cask receiving area. Some BWRs have air lock buildings separate from the cask receiving area.
- (3) **Design Limits** - Provides the geometric configuration, uniform static floor load limit, maximum dynamic load, height, length, and diameter/width.

Cask receiving areas are generally rectangular.

The uniform static floor load limit and maximum dynamic load were determined by structural analyses and may be related to cask-drop analyses completed for specific casks. Values for these floor load limits were typically not available from the utilities. Where information relevant to floor loads was available other than numerical load limits, this was entered in the appropriate comment.

The height, length, and diameter/width values are the minimum dimensions of the cask receiving area. The cask receiving area height given does not necessarily limit the length of a cask which may be handled at the plant but may only limit the transport vehicle plus cask height. The cask receiving area length is the distance from the cask receiving area entrance to the farthest wall opposite the entrance or a permanent obstruction that prevents further vehicle movement. This dimension is important because many cask receiving area entrances contain a door which must be closed before cask-handling operations can proceed. Therefore the cask receiving area length limits the cask transporter length.

For some BWRs, the reactor building is the secondary containment and a cask transporter must enter the building via an air lock. The air lock limits the length of the transporter which may be used, although the combined lengths of the cask receiving area and the air lock are available to maneuver the transporter once the inner air lock door is open.

- (b) The cask upending area part identifies whether a separate cask upending area exists. Most plants do not have a separate cask upending area, since the cask is upended on the

transporter in the cask receiving area. If the data field indicates "Y", then the following information is provided:

- (1) **Access Limits** — Provides the geometric configuration, diameter/width, and height/length.
- (2) **Design Limits** — Provides the geometric configuration, uniform static floor load limit, maximum dynamic load, height, length, and diameter/width. Additional data fields indicate whether the cask upending area has a top hatch and the top hatch's limits (geometric configuration, diameter/width, and length).

If the data field indicates "N", the comment, "NO SEPARATE CASK UPENDING AREA", is given for this part.

- (c) **The cask decontamination area part** identifies whether a separate cask decontamination area exists. If the data field indicates "Y", then the following information is provided:

- (1) **Access Limits** — Provides the minimum dimensions (geometric configuration, diameter/width, and height/length) through which the cask must pass after leaving the cask receiving area or cask upending area before reaching the cask decontamination area. For example, the access limits may be the length and width of a hoist well or hatch which separates the cask receiving area or cask upending area from the cask decontamination area. The diameter/width data field uses the D and W qualifiers described in Section 3.0 to differentiate between a diameter limit in a circular area and a width limit in a square or rectangular area. Similarly the height/length data field uses the L and H qualifiers to differentiate between a length limit (limit visible in a plan view) and a height limit (limit visible in an elevation view).
- (2) **Design Limits** — Provides the geometric configuration, uniform static floor load limit, maximum dynamic load, height, length, diameter/width, and whether the cask decontamination area is enclosed. If the latter data field indicates "Y", the cask decontamination area has walls on at least three sides to approximately the vertical height of the cask.

The uniform static floor load limit and maximum dynamic load were determined by structural analyses and may be related to cask-drop analyses completed for specific casks. Values for these floor load limits were typically not available from the utilities. Where information relevant to floor loads was available other than numerical load limits, this was entered in the appropriate comment.

The height is presented in terms of potential restrictions to cask length. In most cases this is the distance from the floor of the cask decontamination area to the crane hook palm in its uppermost position. However, where the length of casks which could be handled is limited by a cover or some other limiting plant feature, then the data field indicates the most restrictive height.

The length and diameter/width are the minimum dimensions of the area as seen in a plan view. Many cask decontamination areas have been fitted with scaffolding to facilitate personnel access to the cask decontamination area. In these cases the access limit for a cask inserted into the area is defined by the opening in the scaffolding.

In addition, comments provide a brief description of the type of decontamination available (such as manual or automatic, high-pressure spray, etc.) and the dimensions of the cask decontamination area with the scaffolding removed.

If the data field indicates "N", the comment, "NO SEPARATE CASK DECONTAMINATION AREA", is given for this part.

- (d) The cask set-down (loading) area access part identifies the access limits (geometric configuration, the plan view length and diameter/width, and the elevation view height and diameter/width, as appropriate to the layout of the plant) for casks which pass from the cask decontamination area to the cask set-down (loading) area.
- (e) The cask intermediate set-down level part identifies whether a separate cask intermediate set-down level exists. Many plants include an underwater set-down level that is located adjacent to the cask set-down (loading) area floor at a higher elevation. The cask intermediate set-down level serves as a temporary set-down area for the cask before it is lowered into the cask set-down (loading) area. If the data field indicates "Y", then the following information is provided:
 - (1) Design Limits — Provides the height above the cask set-down (loading) area floor, nominal depth below the water line, geometric configuration, uniform static floor load limit, maximum dynamic load, length, and diameter/width.
 - (2) Impact Absorber Data — Additional data fields provide whether the cask intermediate set-down level has an impact absorber and the impact absorber's thickness and construction.

If the data field indicates "N", the comment, "NO SEPARATE CASK INTERMEDIATE SET-DOWN LEVEL", is given for this part.

- (f) The cask set-down (loading) area part identifies the following information for a cask set-down (loading) area which is separate from the spent fuel pool or an area within the spent fuel pool designated for this purpose:
 - (1) Design Limits — Provides the geometric configuration, uniform static floor load limit, maximum dynamic load, length, diameter/width, and depth below the water line.

The uniform static floor load limit and maximum dynamic load were determined by structural analyses and may be related to cask-drop analyses completed for specific casks. Values for these floor load limits were typically not available from the utilities.

Where information relevant to floor loads was available other than numerical load limits, this was entered in the appropriate comment.

The length and diameter/width are the minimum dimensions of the cask set-down (loading) area as seen in the plan view.

The depth below the water line is the distance from the cask set-down (loading) area floor to the normal operating pool water level. If a cask stand or impact absorber is installed in the cask set-down (loading) area, the depth below the water line is from the top of the cask support surface of the stand or impact absorber to the normal operating pool water level.

- (2) **Impact Absorber Data** — Additional data fields provide whether the cask set-down (loading) area floor has an impact absorber and the impact absorber's thickness and construction.
- (3) **Auxiliary Data** — Provides fields indicating whether a stand is installed on the bottom of the loading area floor, the height of the top of the stand above the loading area floor, the overall fuel assembly length, active fuel length, the distance from the top of the assembly to the top of the active fuel length, the required water coverage above the top of an assembly during cask loading, and the maximum distance from the bottom of an assembly to the loading area floor (which in many plants, is the most limiting dimension for cask length). This latter data field was calculated from the other cask set-down (loading) area auxiliary data unless it was provided directly by the utility as an operating limit. This is the only dimensional limit in the FICA database for the cask length without the yoke attached.

The Cask-Handling Data Section also includes comments which provide clarification of the data and additional information that may be useful to the data user.

2.2.2.9 Cask-Handling Summary Data Section

The Cask-Handling Summary Data Section provides a summary of the information contained in the previous sections as follows:

- (a) The summary on-site vehicle limits part provides the weight, diameter/width, length, height, road distance, and road configuration limits which may restrict the movement of a cask transporter from the site gate into the cask receiving area. A more detailed discussion related to the access limits can be found in previous sections. The road weight limit is rarely known by the utilities unless a recent analysis was performed for the movement of a specific heavy load. The vehicle width limit is usually set by the width of the entrance to the cask receiving area, but in some cases other plant features limit vehicle width. The vehicle length limit is usually set by the length of the cask receiving area, air lock, distance between inner and outer protected area gates, or the shortest straight road distance in the route from the site gate to the cask receiving area. The height limit is usually the height of the entrance to the cask

receiving area itself, but other plant features may limit vehicle height. The road distance is the measured or estimated distance from the protected area gate to the cask receiving area. The road configuration is a short description of the pathway from the protected area gate to the cask receiving area, intended to indicate the ease (or otherwise) of access from the gate to the cask receiving area. This summary also includes separate comments for each data field which provide clarification of data and additional information which may be useful to the data user.

- (b) The summary cask limits part provides the most restrictive limitations (weight, diameter/width, and height/length) for the cask travel path from the cask receiving area to the cask set-down (loading) area which may affect cask-handling. The weight limit may be set by the crane design capacity, crane operating capacity, building structural analyses, or cask-drop analyses. The cask diameter/width limit is set by any one of several cask-handling access features. The height/length limit may apply to the suspended length of a cask, but usually is the maximum height a spent fuel assembly can be lifted above the cask set-down (loading) area floor. This summary also includes separate comments for each limitation (weight, diameter/width, and height/length) which provide identification of the source of the weight limit and the plant features which established the cask diameter/width and height/length limits.
- (c) The summary cask-handling capability based on DOE Reference parameters part consists of 12 data fields divided into the following three groups:
 - (1) **Current Cask-Handling Capability Group** — These values were determined by comparing the Reference cask dimensions to the cask limits identified in the summary cask limits part above.
 - (2) **Cask-Handling Capability With Revised License or Operating Instructions Group** — These values evaluate the site's potential cask-handling capability if plant technical specifications, operating procedures, structural analyses, or cask-drop analyses were revised. Some engineering judgment was required to make an assessment of this potential. If the utility supplied information regarding the safety margin included in a cask-handling limit analysis, this information was factored into the judgment.
 - (3) **Cask-Handling Capability With Facility Modifications Group** — These values evaluate the potential cask-handling capability if limited plant modifications were made. The types of modifications assessed include removal of handrails and scaffolding, removal of free-standing walls and installation of cask impact absorbers.

The four data fields in each group ask whether the legal weight or 25 ton truck (LWT), overweight or 40 ton truck (OWT), 100 ton, and 125 ton Reference casks can be handled at the plant. This summary also includes separate comments for each group which provide clarification of the assumptions used in determining the cask-handling capabilities.

- (d) The summary cask-handling capability based on the Second Level Assessment Cask parameters part also consists of 12 data fields with the same format and content as the

summary cask-handling capability based on DOE Reference parameters part above. However, this cask-handling capability is based on the FICA Cask parameters. This summary also includes separate comments for each group which provide clarification of the assumptions used in determining the cask-handling capabilities.

(e) The overweight cask comments part provides two comments:

- (1) Plans and Capability to Use Overweight Truck Cask Comment — This comment is based on the site visit and utility discussions. However, a rigorous assessment of current or potential capability of the off-site transportation systems was not part of the FICA project.
- (2) Potential to Use Casks Heavier Than 125 Tons On-Site Comment — This is the only place in the FICA database where the use of casks over 125 tons is considered but no dimensions for such casks are considered.

2.3 FICA SUMMARY REPORT PROGRAM

2.3.1 Program Execution Procedures

The steps for executing the FICA Summary Report program are:

STEP 1 Enter the FICA subdirectory on the hard drive by typing:
CD \FICA_NEW <Enter>

STEP 2 Execute the FICA Summary Report program by typing:
C_SUM <Enter>

STEP 3 The report selection menu (Fig. 5) appears on the screen indicating a choice of either executing one of the Summary Reports or exiting the program. By means of the up-arrow and down-arrow keys move the cursor to the desired selection and then press the <Enter> key to select the option.

The Summary Reports are:

1. AUTO — Automated Cask Assessment

This report provides the most restrictive limitations (weight, diameter/width, height/length, and overall fuel assembly length) for the cask-handling travel path from the cask receiving area to the cask set-down (loading) area at facilities which can (or cannot) handle casks with total weight, body diameter, body length, and internal cask cavity length specified by the user.

With this selection, the Automated Cask Assessment menu (Fig. 6) appears on the screen. The user is prompted to enter the cask dimensions of total

FACILITY INTERFACE CAPABILITY ASSESSMENT (FICA) SUMMARY REPORTS

Select a report —>

- AUTO - Automated Cask Assessment**
- Cask Receiving Area - Access Limits**
- Cask Receiving Area - Design Limits**
- Cask Upending Area - Access Limits**
- Cask Upending Area - Design Limits**
- Cask Decontamination Area - Access Limits**
- Cask Decontamination Area - Design Limits**
- Cask Set-Down (Loading) Area - Access Limits**
- Cask Intermediate Set-Down Level**
- Cask Set-Down (Loading) Area - Design Limits**
- Cask Set-Down (Loading) Area - Auxiliary Data**
- Cask-Handling Summary - Assessed Capabilities**
- Cask-Handling Summary - Current Cask Limits**
- Cask Shipment Experience**
- Crane and Crane Hook Parameters**
- Crane Clearances**
- Crane Hook**
- Pool Dimensions**
- Site - Mailing/Shipping Addresses**
- Site - Current Utility Contact**

Position with: ↑↓ - Press <Enter> to select choice

Figure 5. FICA Summary Report Program — report selection menu.

weight, body diameter, body length, and cavity length. The user is then prompted with two choices: (1) report the sites that CAN handle these cask dimensions, or (2) report the sites that CANNOT handle these cask dimensions. The default setting is "1" (for reporting the sites that CAN handle these cask dimensions). Select the option by typing in the appropriate number. The Output Options menu (STEP 4) now appears on the screen.

2. Cask Receiving Area — Access Limits

This report provides the most limiting access features (configuration, diameter/width, and height/length) of the cask transporter pathway from the site gate to the cask receiving area at each facility.

3. Cask Receiving Area — Design Limits

This report provides the design limits of the cask receiving area at each facility.

4. Cask Upending Area — Access Limits

AUTOMATED CASK ASSESSMENT DESIGN MENU	
Input a Cask Design to Compare with Current Site Capabilities per FICA:	
Total Weight :	<input type="text" value="0.8"/> tons
Body Diameter :	<input type="text" value="6"/> ft <input type="text" value="0"/> in
Body Length :	<input type="text" value="14"/> ft <input type="text" value="0"/> in
Cavity Length :	<input type="text" value="18"/> ft <input type="text" value="0"/> in
1 = Report Sites That CAN Handle These Cask Dimensions 2 = Report Sites That CANNOT Handle These Cask Dimensions	
Your selection:	<input type="text" value="1"/>

Figure 6. FICA Summary Report Program — automated cask assessment menu.

This report provides the access limits (geometric configuration, diameter/width, and height/length) for cask travel from the cask receiving area to the cask upending area at each facility where a separate cask upending area exists.

5. Cask Upending Area — Design Limits

This report provides the cask upending area design limits (geometric configuration, uniform static floor load limit, maximum dynamic load, height, length, and diameter/width) for each facility where a separate cask upending area exists.

6. Cask Decontamination Area — Access Limits

This report provides the minimum dimensions (geometric configuration, diameter/width, and height/length) through which the cask must pass after leaving the cask receiving area or the cask upending area before reaching the cask decontamination area at each facility where a separate cask decontamination area exists.

7. **Cask Decontamination Area — Design Limits**
This report provides the design limits of the cask decontamination area for each facility where a separate cask decontamination area exists.
8. **Cask Set-Down (Loading) Area — Access Limits**
This report provides the access limits (geometric configuration, the plan view length and diameter/width, and the elevation view height and diameter/width, as appropriate to the layout of the plant) for casks which pass from the cask decontamination area to the cask set-down (loading) area at each facility.
9. **Cask Intermediate Set-Down Level**
This report provides the cask intermediate set-down level design limits (geometric configuration, uniform static floor load limit, maximum dynamic load, length, and diameter/width) for each facility where a separate cask intermediate set-down level exists.
10. **Cask Set-Down (Loading) Area — Design Limits**
This report provides the cask set-down (loading) area design limits (geometric configuration, uniform static floor load limit, maximum dynamic load, length, diameter/width, and depth below the water line) for each facility.
11. **Cask Set-Down (Loading) Area — Auxiliary Data**
This report provides the cask set-down (loading) area auxiliary data fields which indicate the required water coverage above the top of an assembly during cask loading and the maximum distance from the bottom of an assembly to the cask set-down (loading) area floor (which in many plants, is the most limiting dimension for cask length) at each facility.
12. **Cask-Handling Summary — Assessed Capabilities**
This report provides the summary cask-handling capability for each facility based on DOE Reference cask parameters.
13. **Cask-Handling Summary — Current Cask Limits**
This report provides the most restrictive limitations (weight, diameter/width, and height/length) for the cask travel path from the cask receiving area to the cask set-down (loading) area which may affect cask-handling at each facility.
14. **Cask Shipment Experience**
This report provides information describing the previous cask shipment and cask-handling experience at each facility.
15. **Crane and Crane Hook Parameters**
This report provides the cask-handling crane and crane hook capabilities at each facility.

16. Crane Clearances

This report provides the cask-handling crane clearances (from the operating area floor and from the cask upending area floor to the hook palm in the uppermost position, and the height of the highest permanent obstruction in the cask-handling path above the operating area floor) at each facility.

17. Crane Hook

This report provides the cask-handling crane hook capabilities for each facility.

18. Pool Dimensions

This report provides the spent-fuel pool dimensions (length, width, depth, water depth, and maximum static floor loading) at each facility.

19. Site — Mailing/Shipping Addresses

This report provides the site mailing address and the site shipping address for each facility.

20. Site — Current Utility Contact

This report identifies the current utility contact's name, position, telephone number, facsimile (FAX) number, and normal work station (either the reactor site or the utility site) for each facility.

21. Site — Summary of the Site Visit

This report provides the site visit date, reactor type, the Nuclear Steam Supply System (NSSS) vendor name, reactor thermal and electrical ratings, plant location, and utility contact's name and location (either the reactor site or the utility site) for each facility.

22. Transportation — Barge Access

This report provides the barge or ship loading facility location ("Off-Site", "On-Site", or "None"), "Off-Site" access road distance in miles to the nearest barge or ship loading facility or "On-Site" distance in feet to the cask receiving area or cask upending area door, and operational status for each facility.

23. Transportation — On-Site Capabilities

This report provides the distance to the nearest Interstate Highway, availability and operational status of an on-site railhead or rail spur, and availability and operational status of an on-site barge or ship loading facility for each facility.

24. Transportation — Rail Access

This report provides the rail location ("Off-Site", "On-Site", or "None"), "Off-Site" access road distance in miles to the nearest railhead or rail spur or "On-Site" distance in feet to the cask receiving area or cask upending area door, and operational status for each facility.

STEP 4 The Output Options menu (Fig. 7) appears on the screen indicating the three possible destinations of the output: (1) send the output directly to the printer, (2) send the output to a file in the current subdirectory, or (3) display the output on the screen only. The default setting is "3" for displaying the output on the screen only. Select the option by typing in the appropriate number.

If output option "1" is selected, the report is sent directly to the printer. While the program is processing, the message "REPORT BEING PRINTED ON xxxx" is displayed on the screen where "xxxx" is the print device specified. The default print device is LPT2. To change the default setting, edit the PRINT.UNT file prior to executing the FICA Summary Report program.

If output option "2" is selected, the report is output to a file in the current subdirectory. While the program is processing, the message "REPORT BEING GENERATED ON FILE: FICASMx.TXT" is displayed on the screen where "x" is the report number from STEP 3.

If output option "3" is selected and the summary report is "AUTO - Automated Cask Assessment", the Automated Cask Assessment Screen Output menu (Fig. 8) appears on the screen indicating the two possible screen report forms: (1) short report, that is, listing only the site names, or (2) full report, that is, listing the site name and all limiting site dimensions for each site. The default setting is "1" for displaying only the site names on the screen. Select the option by typing in the appropriate number.

With output option "3" the user reviews the report output on the screen only and is moved forward from screen to screen by means of a prompt.

After completing the selected Summary Report, the program returns to the report selection menu (STEP 3).

23.2 Summary Reports

23.2.1 AUTO — Automated Cask Assessment Report

This report provides the most restrictive limitations (weight, diameter/width, height/length, and overall fuel assembly length) for the cask-handling travel path from the cask receiving area to the cask set-down (loading) area at facilities which can (or cannot) handle casks with total weight, body diameter, body length, and internal cask cavity length specified by the user. If a zero is specified by the user in any of the cask parameter data fields, the report excludes that parameter from its assessment of cask-handling capability. Thus, for example, if the internal cask cavity length is input as zero, the report will be based on an assessment of total weight, body diameter, and body length only.

OUTPUT OPTIONS MENU

REPORT SELECTED : Site - Summary of the Site Visit

1 = Send Output Directly to the Printer
2 = Send Output to File: FICASM21.TXT
3 = Display Output on Screen Only

Your selection: 3

Figure 7. FICA Summary Report Program — output options menu.

This report does not assess the affect on potential facility changes, licensing changes, and plant modifications which allow handling of cask sizes other than FICA casks.

The printed report also includes separate comments for each cask limitation (weight, diameter/width, and height/length) which provide identification of the source of the weight limit and the plant features which established the cask diameter/width and height/length limits.

23.2.2 Cask Receiving Area — Access Limits Report

This report provides the most limiting access features (configuration, diameter/width, and height/length) of the cask transporter pathway from the site gate to the cask receiving area at each facility. In most cases, the door to the cask receiving area is the most limiting access feature. For many BWRs, the cask receiving area is accessed through an air lock building whose doors may be the limiting access feature.

The printed report also includes the cask receiving area comment for each facility which provides clarification of the data and information which may be useful to the user.

AUTOMATED CASK ASSESSMENT SCREEN OUTPUT MENU

1 = Short Report (List only the site names.)
2 = Full Report (List all limiting site dimensions.)

Your selection:

Figure 8. FICA Summary Report Program — automated cask assessment screen output menu.

23.2.3 Cask Receiving Area — Design Limits Report

This report provides the design limits of the cask receiving area at each facility. The first data field indicates if the cask receiving area is an air lock. The remaining fields provide the design limits of geometric configuration, uniform static floor load limit, maximum dynamic load, height, length, and diameter/width. Cask receiving areas are generally rectangular. The uniform static floor load limit and maximum dynamic load were determined by structural analyses and may be related to cask-drop analyses completed for specific casks. Values for these floor load limits were typically not available from the utilities. Where information relevant to floor loads was available other than numerical load limits, this was entered in the appropriate comment. The height, length, and diameter/width values are the minimum dimensions of the cask receiving area. The cask receiving area height given does not necessarily limit the length of a cask which may be handled at the plant but may only limit the transport vehicle plus cask height. The cask receiving area length is the distance from the cask receiving area entrance to the farthest wall opposite the entrance or a permanent obstruction that prevents further vehicle movement. This dimension is important because many cask receiving area entrances contain a door which must be closed before cask-handling operations can proceed. Therefore the cask receiving area length limits the cask transporter length. For some BWRs, the

reactor building is the secondary containment and a cask transporter must enter the building via an air lock. The air lock limits the length of the transporter which may be used, although the combined lengths of the cask receiving area and the air lock are available to maneuver the transporter once the inner air lock door is open.

The printed report also includes the cask receiving area comment for each facility which provides clarification of the data and information which may be useful to the user.

23.2.4 Cask Upending Area — Access Limits Report

This report provides the access limits (geometric configuration, diameter/width, and height/length) for cask travel from the cask receiving area to the cask upending area at each facility where a separate cask upending area exists. Otherwise the comment, "NO SEPARATE CASK UPENDING AREA", is given.

The printed report also includes the cask upending area comment for each facility which provides clarification of the data and information which may be useful to the user.

23.2.5 Cask Upending Area — Design Limits Report

This report provides the cask upending area design limits (geometric configuration, uniform static floor load limit, maximum dynamic load, height, length, and diameter/width) for each facility where a separate cask upending area exists. Otherwise the comment, "NO SEPARATE CASK UPENDING AREA", is given.

The printed report also includes the cask upending area comment for each facility which provides clarification of the data and information which may be useful to the user.

23.2.6 Cask Decontamination Area — Access Limits Report

This report provides the minimum dimensions (geometric configuration, diameter/width, and height/length) through which the cask must pass after leaving the cask receiving area or the cask upending area before reaching the cask decontamination area at each facility where a separate cask decontamination area exists. Otherwise the comment, "NO SEPARATE CASK DECONTAMINATION AREA", is given.

For example, the access limits may be the width and length of a hoist well or hatch which separates the cask receiving area or cask upending area from the cask decontamination area. The diameter/width data field uses the D and W qualifiers described in Section 3.0 to differentiate between a diameter limit in a circular area and a width limit in a square or rectangular area. Similarly the height/length data field uses the L and H qualifiers to differentiate between a length limit (limit visible in a plan view) and a height limit (limit visible in an elevation view).

The printed report also includes the cask decontamination area comment for each facility which provides clarification of the data and information which may be useful to the user.

23.2.7 Cask Decontamination Area — Design Limits Report

This report provides the design limits of the cask decontamination area at each facility where a separate cask decontamination area exists. The first data field indicates if the cask decontamination area is enclosed; that is, it has walls on at least three sides to approximately the vertical height of the cask. The remaining fields provide the limiting features (geometric configuration, uniform static floor load limit, maximum dynamic load, height, length, and diameter/width) of the cask decontamination area. If a separate cask decontamination area does not exist at the facility, the comment, "NO SEPARATE CASK DECONTAMINATION AREA", is given.

The uniform static floor load limit and maximum dynamic load were determined by structural analyses and may be related to cask-drop analyses completed for specific casks. Values for these floor load limits were typically not available from the utilities. Where information relevant to floor loads was available other than numerical load limits, this was entered in the appropriate comment.

The height is presented in terms of potential restrictions to cask length. In most cases this is the distance from the floor of the cask decontamination area to the crane hook palm in its uppermost position. However, where the length of casks which could be handled is limited by a cover or some other limiting plant feature, then the data field indicates the most restrictive height.

The length and diameter/width are the minimum dimensions of the area as seen in a plan view. Many cask decontamination areas have been fitted with scaffolding to facilitate personnel access to the cask decontamination area. In these cases the access limit for a cask inserted into the area is defined by the opening in the scaffolding.

The printed report also includes the cask decontamination area comment for each facility which provides clarification of the data and information which may be useful to the user.

23.2.8 Cask Set-Down (Loading) Area — Access Limits Report

This report provides the access limits (geometric configuration, the plan view length and diameter/width, and the elevation view height and diameter/width, as appropriate to the layout of the plant) for casks which pass from the cask decontamination area to the cask set-down (loading) area at each facility.

The printed report also includes the cask set-down (loading) area access comment for each facility which provides clarification of the data and information which may be useful to the user.

23.2.9 Cask Intermediate Set-Down Level Report

This report provides the cask intermediate set-down level design limits (geometric configuration, uniform static floor load limit, maximum dynamic load, length, and diameter/width) for each facility where a separate cask intermediate set-down level exists. Otherwise the comment, "NO SEPARATE CASK INTERMEDIATE SET-DOWN LEVEL", is given.

The printed report also includes the cask intermediate set-down level comment for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.10 Cask Set-Down (Loading) Area — Design Limits Report

This report provides the cask set-down (loading) area design limits (geometric configuration, uniform static floor load limit, maximum dynamic load, length, diameter/width, and depth below the water line) for each facility.

The uniform static floor load limit and maximum dynamic load were determined by structural analyses and may be related to cask-drop analyses completed for specific casks. Values for these floor load limits were typically not available from the utilities. Where information relevant to floor loads was available other than numerical load limits, this was entered in the appropriate comment.

The length and diameter/width are the minimum dimensions of the cask set-down (loading) area as seen in the plan view.

The depth below the water line is the distance from the cask set-down (loading) area floor to the normal operating pool water level. If a cask stand or impact absorber is installed in the cask set-down (loading) area, the depth below the water line is from the top of the cask support surface of the stand or impact absorber to the normal operating pool water level.

The printed report also includes the cask set-down (loading) area comment for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.11 Cask Set-Down (Loading) Area — Auxiliary Data Report

This report provides the cask set-down (loading) area auxiliary data fields which indicate the required water coverage above the top of an assembly during cask loading and the maximum distance from the bottom of an assembly to the cask set-down (loading) area floor (which in many plants, is the most limiting dimension for cask length) at each facility.

The printed report also includes comments for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.12 Cask-Handling Summary — Assessed Capabilities Report

This report provides the summary cask-handling capability for each facility based on the DOE Reference cask parameters. The report consists of 12 data fields divided into the following three groups:

- (a) **Current Cask-Handling Capability Group** — These values were determined by comparing the Reference cask dimensions to the cask limits identified in the summary cask limits part of the Cask-Handling Summary Data Section (Section 2.2.2.9).

- (b) **Cask-Handling Capability With Revised License or Operating Instructions Group** — These values evaluate the site's potential cask-handling capability if plant technical specifications, operating procedures, structural analyses, or cask-drop analyses were revised. Some engineering judgment was required to make an assessment of this potential. If the utility supplied information regarding the safety margin included in a cask-handling limit analysis, this information was factored into the judgment.
- (c) **Cask-Handling Capability With Facility Modifications Group** — These values evaluate the potential cask-handling capability if limited plant modifications were made. The types of modifications assessed include removal of handrails and scaffolding, removal of free-standing walls and installation of cask impact absorbers.

The four data fields in each group ask whether the legal weight or 25 ton truck (LWT), overweight or 40 ton truck (OWT), 100 ton, and 125 ton Reference casks can be handled at the plant.

2.3.2.13 Cask-Handling Summary — Current Cask Limits Report

This report provides the most restrictive limitations (weight, diameter/width, and height/length) for the cask travel path from the cask receiving area to the cask set-down (loading) area which may affect cask-handling at each facility. The weight limit may be set by the crane design capacity, crane operating capacity, building structural analyses, or cask-drop analyses. The cask diameter/width limit is set by any one of several cask-handling access features. The height/length limit may apply to the suspended length of a cask, but usually is the maximum height a spent fuel assembly can be lifted above the cask set-down (loading) area floor.

The printed report also includes separate comments for each limitation (weight, diameter/width, and height/length) which provide identification of the source of the weight limit and the plant features which established the cask diameter/width and height/length limits.

2.3.2.14 Cask Shipment Experience Report

This report provides information describing the previous cask shipment and cask-handling experience at each facility. The first three data fields (with values of either "Y" or "N") indicate whether the utility has had experience in shipping casks by truck, rail, and barge or ship. Some utilities have handled spent fuel shipping casks as an exercise to demonstrate their capabilities but have not actually shipped spent fuel from the site. The last field indicates the last cask operations date.

2.3.2.15 Crane and Crane Hook Parameters Report

This report provides the cask-handling crane and crane hook capabilities for each facility. The data fields identify the crane design capacity, operating capacity, auxiliary crane operating capacity, crane hook configuration (J or SISTER), the date of the most recent cask-drop analysis for the plant, whether the crane is single failure proof per the requirements of NUREG-0612, and crane type (REDUNDANT or NON-REDUNDANT).

The printed report also includes crane capacity and cask drop analysis comments for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.16 Crane Clearances Report

This report provides the cask-handling crane clearances (from the operating area floor and from the cask upending area floor to the hook palm in the uppermost position, and the height of the highest permanent obstruction in the cask-handling path above the operating area floor) at each facility. Ordinarily the clearance from the operating area floor to the hook palm minus the height of the highest obstruction limits movement from the cask receiving area to the cask set-down (loading) area. However, in some plant designs the suspended cask is not lifted above the operating area floor, and consequently cask movement is not limited by this clearance.

The printed report also includes a crane clearances and hook comment for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.17 Crane Hook Report

This report provides the cask-handling crane hook capabilities for each facility. The data fields identify the configuration (J or SISTER), palm radius, maximum width, maximum thickness, distance from the center of palm radius to the bottom of hook, distance between the centers of the SISTER hook palm radii, diameter of the crane pin hole in the hook or the pendant, distance from crane hook palm (bottom of the interior surface) to the bottom surface of the block, and vertical distance from the center of palm radius to the center of pin hole. Depending on the crane hook configuration, some of these data fields are not applicable. For example, for a J-hook the data field that identifies the distance between the centers of the SISTER hook palm radii is left blank.

The printed report also includes a crane clearances and hook comment for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.18 Pool Dimensions Report

This report provides the spent-fuel pool dimensions (length, width, depth, water depth, and maximum static floor loading) at each facility. Length is taken as the larger of two dimensions shown in a plan view of the pool.

The printed report also includes a pool dimensions comment for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.19 Site — Mailing/Shipping Addresses Report

This report provides the site mailing address and the site shipping address for each facility. The addresses include city, state, and zip code.

2.3.2.20 Site — Current Utility Contact Report

This report identifies the current utility contact's name, position, telephone number, facsimile (FAX) number, and normal work station (either the reactor site or the utility site) for each facility. The contact is either the person who was the formally designated utility staff member or the main point of contact during the performance of the FICA project. Where more than one person could have been identified, the utility was asked to advise which was the appropriate contact. Although the data records were updated through the period of the data collection and site visit program, utility personnel changes are likely to have occurred. Users should bear this in mind if the database is used to determine utility contacts.

2.3.2.21 Site — Summary of the Site Visit Report

This report provides the site visit date, reactor type, the Nuclear Steam Supply System (NSSS) vendor name, reactor thermal and electrical ratings, plant location, and utility contact's name and location (either the reactor site or the utility site) for each facility. The contact is either the person who was the formally designated utility staff member or the main point of contact during the performance of the FICA project. Where more than one person could have been identified, the utility was asked to advise which was the appropriate contact. Although the data records were updated through the period of the data collection and site visit program, utility personnel changes are likely to have occurred. Users should bear this in mind if the database is used to determine utility contacts.

2.3.2.22 Transportation — Barge Access Report

This report provides the barge or ship loading facility location ("Off-Site", "On-Site", or "None"), "Off-Site" access road distance in miles to the nearest barge or ship loading facility or "On-Site" distance in feet to the cask receiving area or cask upending area door, and operational status for each facility. The road distance and operational status are blank if the barge or ship loading facility does not exist or is more than 50 road miles away. The operational status of the nearest barge or ship loading facility to be accessed from the site can be either OPERATIONAL, UNDER CONSTRUCTION, or INACTIVE.

The printed report also includes a comment for each facility which provides clarification of the data and information which may be useful to the user.

2.3.2.23 Transportation — On-Site Capabilities Report

This report provides the distance to the nearest Interstate Highway, availability and operational status of an on-site railhead or rail spur, and availability and operational status of an on-site barge or ship loading facility for each facility. The operational status of both the nearest railhead or rail spur and the nearest barge or ship loading facility to be accessed from the site can be either OPERATIONAL, UNDER CONSTRUCTION, or INACTIVE.

2.3.2.2.4 Transportation — Rail Access Report

This report provides the rail location ("Off-Site", "On-Site", or "None"), "Off-Site" access road distance in miles to the nearest railhead or rail spur or "On-Site" distance in feet to the cask receiving area or cask upending area door, and operational status for each facility. The road distance and operational status are blank if the railhead or rail spur does not exist or is more than 50 road miles away. The operational status of the nearest railhead or rail spur to be accessed from the site can be either OPERATIONAL, UNDER CONSTRUCTION, or INACTIVE.

The printed report also includes a comment for each facility which provides clarification of the data and information which may be useful to the user.

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3. FICA DATABASE

The FICA database consists of 39 dBASE III database files (totalling approximately 4.5 Mb) and 21 CLIPPER index files (totalling approximately 0.2 Mb). The 39 dBASE III database files include 13 data files, 9 files that hold qualifying character pointer links, 11 files that hold matching qualifiers accessed by the original NAC FICA software, and 6 miscellaneous files used in FICA program execution.

The 21 CLIPPER index files are linked into the 13 data files to more efficiently access needed records. CLIPPER index files, with "NTX" extensions, leave room for users to create their own dBASE indexes with "NDX" extensions, for database queries without interfering with the indexes used by the FICA programs. If extracts or queries are needed which are different from the FICA software reports, they can be accomplished using the dBASE environment. Use of dBASE in this manner will not affect the operation of the FICA programs.

The 13 data files correspond directly to the FICA Reactor Report Sections (Off-Site Data, On-Site Data, Crane Data, etc). In some cases the number of data fields required by a report section exceeds the dBASE III limit and the section had to be broken up into more than one data file (for example, Cask-Handling Data is contained in CASK1.DBF and CASK2.DBF data files). While CLIPPER data field limits are higher than dBASE III limits, the dBASE limits were used so that a user could access FICA data files in either the dBASE III, dBASE III PLUS, or dBASE IV environment if the need arose.

Most records in the FICA data files are identified by data source. Initially five data sources of information were chosen, including RW-859. After the FICA Phase II site visits, the data from all sources other than RW-859 were replaced with data collected during the site visits, and the site visit records were identified in the FICA data files by the name "SITE V". In addition to data source, some database files are structured by level (that is, sorted by either site or reactor). The FICA data files for each FICA Reactor Report Section are as follows:

<u>FICA Reactor Report Section</u>	<u>dBASE file</u>	<u>Structure</u>
Site/Reactor Data	SITEHDR.DBF	1 record per site.
	RXHDR.DBF	1 record per reactor.
	SITECOM.DBF	1 record per site and source.
Off-Site Data	OFFSITE.DBF	1 record per site and source.
On-Site Data	ONSITE.DBF	1 record per reactor and source.
General Reactor Data	REACTOR.DBF	1 record per reactor and source.
Shipment Experience	EXPERIEN.DBF	1 record per reactor and source.

Crane Data	CRANE.DBF	1 record per reactor and source.
Spent Fuel Pool Data	POOL.DBF	1 record per reactor, pool and source.
Cask-Handling Data	CASK1.DBF	1 record per reactor and source.
	CASK2.DBF	1 record per reactor and source.
Cask-Handling Summary Data	SUMMARY1.DBF	1 record per reactor and source.
	SUMMARY2.DBF	1 record per reactor and source.

To clarify certain numeric data fields in the FICA data files, a qualifying character precedes these fields in the FICA software reports. The major qualifiers are:

<u>Qualifying Character</u>	<u>Description</u>
=	Actual value is zero (as opposed to zero meaning a lack of information).
>	Actual value is greater than the value indicated.
<	Actual value is less than the value indicated.
~	Approximately.
C	See comment for further information about this value.
D	Diameter.
H	Height.
L	Length.
W	Width.

Appendix 1:
SAMPLE FICA REACTOR REPORT OUTPUT

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

FACILITY INTERFACE CAPABILITY ASSESSMENT (FICA) PROJECT DATABASE

Initial Data Collection by Nuclear Assurance Corporation
Under Subcontract to Oak Ridge National Laboratory
for the U.S. Department of Energy
Under Contract Number DE-AC05-84OR21400

Program Interface by CRWS/M&O
for the U.S. Department of Energy
Under Contract Number DE-AC01-91RW00134

Program Revision Date: June 1993

This database is issued in conjunction with the FICA project report
(Ref. ORNL/Sub/86-9739316)

The project report and individual assessment reports on each of
the 122 facilities included in this database may be obtained
upon request to:

TRW Environmental Safety Systems Inc.
R. R. MacDonald
2650 Park Tower Drive
Suite 800
Vienna, VA 22180

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Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

SITE/REACTOR DATA

SITE

Site Name : TURKEY POINT
County : DADE
Site Telephone : (305) 246-1300
Site Mailing Address : P.O. BOX 029100
MIAMI, FL 33102-
Site Shipping Address : 9.5 MI E OF FL CITY ON PALM DR
FLORIDA CITY, FL 33174-

REACTOR

Reactor Name : TURKEY POINT 3
INIS Unit ID : 1803
Type : PWR
NSSS Vendor : WESTINGHOUSE
Architect/Engineer : BECHTEL
MWT : 2200
Gross MWe : 700
Status : OPERATING
Utility : FLORIDA POWER & LIGHT COMPANY
Holding Company : FPL GROUP, INC.
USNRC Docket Number : 50-250
DOE Contract Number One : DE-CR01-83NE44383
DOE Contract Number Two : DE-CR01-83NE44471

CURRENT CONTACT

Current Contact Name : GEORGE T. ZAMRY
Current Contact Position : SENIOR FUEL COORDINATOR
Current Contact Telephone : (407) 694-3439
Current Contact FAX : (407) 694-4311
Current Contact Site or Utility Office : U

UTILITY

Utility Office Telephone : (407) 694-3260
Utility Office Mailing Address : P.O.BOX 14000, MAILSTOP JMM-JB
JUNO BEACH, FL 33408-0420
Utility Office Shipping Address : 700 UNIVERSE BLVD., BLDG. C.
JUNO BEACH, FL 33408-0420

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

=====

SITE/REACTOR DATA (Continued)

General Site/Reactor Header Comment

FP&L considers some fuel (928 total assemblies in both units) to be owned by Westinghouse which is covered under DOE Contract 44471.

General Site/Reactor Comment for SITE VISIT

Site has two fossil (oil and gas) units (1 & 2) and two nuclear units, Turkey Point 3 and 4.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

=====

OFF-SITE DATA

***** OFF-SITE INTERSTATE HIGHWAY *****

Source	Number	Status	Road Route to Off-Site Interstate Highway
SITE V	I-95	OPERATIONAL	PALM DRIVE WEST TO U.S. ROUTE 1, NORTH TO FLORIDA TURNPIKE EXTENSION TO I-95

Source	Total Distance	Distance Under Utility Control	Weight	Height	Length	Width
SITE V	9.50 MI	1.20 MI	0.00 Tons	0 Ft 0 In	0 Ft 0 In	0 Ft 0 In

Off-Site Access Road(s) to Interstate Highway Comment for SITE VISIT
 Offsite access roads are considered adequate for legal weight truck shipments.

***** OFF-SITE RAILHEAD/RAIL SPUR *****

Source	Name	Status	Weight Limit
SITE V	FLORIDA EAST COAST RAILWAY	OPERATIONAL	197.25 Tons

Source	Carrier Name	Owner
SITE V	FLORIDA EAST COAST RAILWAY	FLORIDA EAST COAST RAILWAY

Source	Road Route to Off-Site Railhead/Rail Spur
SITE V	PALM DRIVE WEST TO RAIL SPUR

Source	Total Distance	Distance Under Utility Control	Weight	Height	Length	Width
SITE V	10.00 MI	1.20 MI	0.00 Tons	0 Ft 0 In	0 Ft 0 In	0 Ft 0 In

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

=====

OFF-SITE DATA (Continued)

Off-Site Railhead/Rail Spur Comment for SITE VISIT

Rail spur is available for use in town of Florida City, approximately 10 miles due west of the site. There are no unusual height, width, or weight restrictions but road route has not been used for heavy haul.

***** OFF-SITE BARGE/SHIP LOADING FACILITY *****

*** SEE ON-SITE BARGE/SHIP LOADING FACILITY ***

General Off-Site Access Comment for SITE VISIT

*** NONE ***

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

ON-SITE DATA

***** ON-SITE ROAD *****

-----Vehicle Limits-----					
Source	Weight	Weight Per Tandem Axle	Length	Width	Height
SITE V	C 250.00 Tons	17.00 Tons	C 120 Ft 0 In	C 20 Ft 0 In	C 0 Ft 0 In

On-Site Road Vehicle Limits Comment for SITE VISIT

Weight is weight of steam generators brought to site by barge; length is from access road to receiving area; width is minimum road width; height is not restricted.

-----Transporter/Tractor-----			
Source	Type	Weight	Capacity
SITE V	*** NONE AVAILABLE ***		

Transporter/Tractor Comment for SITE VISIT

Could be leased.

***** ON-SITE RAILHEAD/RAIL SPUR *****

*** SEE OFF-SITE RAILHEAD/RAIL SPUR ***

***** ON-SITE BARGE/SHIP LOADING FACILITY *****

Source	Name of Facility	Status	Type	Name of Waterway
SITE V	TURKEY POINT BOAT RAMP	OPERATIONAL	BARGE	BISCAYNE BAY-ATLANTIC OCEAN

Source	Distance to Cask Receiving/Upending Area	-----Limits-----			On-Site Bridge Height Limit	Off-Site Bridge Height Limit
		Weight	Height	Depth/Draft		
SITE V	2450 Ft	0.00 Tons	0 Ft 0 In	6 Ft 0 In	0 Ft 0 In	0 Ft 0 In

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

=====

ON-SITE DATA (Continued)

On-Site Barge/Ship Loading Facility Comment for SITE VISIT

Barge slip is 45 ft by 115 ft. Designed for roll-on/roll off transport. Used to receive 250-ton replacement steam generators in 1979. No weight or height limits, no crane. Two foot tidal change.

General On-Site Access Comment for SITE VISIT

Onsite access road is suitable for heavy haul (250 tons) from barge slip. Barge slip is only a few hundred feet from Biscayne Bay.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

GENERAL REACTOR DATA

Source	Preferred Shipping Cask(s)	Dry Storage Cask Capability
-----	-----	-----

SITE V	NAC-1/NLI-1/2	NONE
--------	---------------	------

Source	Type(s) and Number(s) of Long-Term Casks on Site
-----	-----

SITE V	None
--------	------

Dry Cask Storage Capability (Current and Planned) Comment for SITE VISIT

*** NONE ***

On-Site Long Term Casks Comment for SITE VISIT

No plans for use of storage casks.

	Other Storage		Rod	Concrete	Dry	
Source	Technologies Planned?	ReRack?	Consolidation?	Vault/Bunker?	Storage Casks?	Transshipment?
-----	-----	-----	-----	-----	-----	-----
SITE V	Yes	No	Yes	No	No	Yes

Other Storage Technologies Planned Comment for SITE VISIT

No additional storage is required through end of current license (4/2007) or end of expected extended license (10/2013). Racks are designed for consolidated fuel. Transshipment capability (only to Unit 4) will be maintained.

Weather Restriction to Cask Shipping Comment for SITE VISIT

No cask handling (including fuel loading/unloading) during severe storm or hurricane warnings.

General Reactor Comment for SITE VISIT

*** NONE ***

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

SHIPMENT EXPERIENCE

-----Shipment Experience-----
Source Truck Rail Barge/Ship

SITE V Yes No No

Truck Shipment (Experience, Number, Type and Date) Comment for SITE VISIT

Five shipments were made during 1978 and 13 shipments were made in 1979 using the NLI-1/2 cask.

Rail Shipment (Experience, Number, Type and Date) Comment for SITE VISIT

*** NONE ***

Barge/Ship Shipment (Experience, Number, Type and Date) Comment for SITE VISIT

*** NONE ***

-----Cask Handling Experience-----
Source Cask Type Names Last Operations Date Problems in Past?

SITE V NLI-1/2 04/01/83 No

-----Average Cask Turnaround Time-----
Source Legal Weight Truck Cask Overweight Truck Cask Rail Cask Barge Cask

SITE V 1 Days 0 Days 0 Days 0 Days

Past Cask Handling Comment for SITE VISIT

Numerous assemblies have been transferred between Units 3 & 4 using crane and NAC-1 and NLI 1/2 casks between 1976 and 1983.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

CRANE DATA

Source	Designation	Vendor	Design Capacity	Operating Capacity	Auxiliary Crane Operating Capacity
-----	-----	-----	-----	-----	-----
SITE V	BRIDGE	WHITING	105 Tons	25 Tons	15 Tons

Crane Capacity (Current and Planned) Comment for SITE VISIT

Crane is down-rated due to cask-drop analysis. Crane services both the Unit 3 and the Unit 4 spent-fuel pool.

Source	Crane Type	Allow Wetting of Crane Hook?
-----	-----	-----
SITE V	NON-REDUNDANT	Yes

Crane Type Comment for SITE VISIT

Bridge crane serves both the Unit 3 and the Unit 4 spent-fuel pools.

Source	-----Crane Clearances-----		
	-----To Hook Palm in Uppermost Position----- From Operating Floor	From Upending Area Floor	Height Above Operating Floor of Highest Permanent Obstruction in Cask/Crane Path
-----	-----	-----	-----
SITE V	37 Ft 9 In	77 Ft 9 In	C 0 Ft 0 In

Source	Configuration	-----Crane Hook-----			
		Palm Radius	Maximum Width	Maximum Thickness	Distance From Center of Palm Radius to Bottom of Hook
-----	-----	-----	-----	-----	-----
SITE V	SISTER	4.00 In	36.00 In	8.12 In	17.00 In

Source	Distance Between Centers of Sister Hook Palm Radii	Crane Hook/Pendant Pin Hole Diameter	Distance From Crane	Vertical Distance From Center of Palm Radius to Center of Pin Hole
			Hook Palm to Bottom of Block	
-----	-----	-----	-----	-----
SITE V	16.12 In	7.50 In	23.00 In	10.00 In

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

=====

CRANE DATA (Continued)

Crane Clearances and Hook Comment for SITE VISIT

Crane hook does not have a pendant. There is a 4-inch high valve access cover on the operations floor, but it is only an obstruction for onsite transshipment between units 3 and 4.

Source	Date of Most Recent Cask Drop Analysis	Single Failure Proof per NUREG 0612?	Cask Travel Over Safety Related Equipment Required?
-----	-----	-----	-----
SITE V	06/01/76	Yes	Yes

Cask Drop Analysis Comment for SITE VISIT

Cask drop analysis assumes the use of a 25-ton cask. Travel path crosses component cooling water piping (safety related). Cask drop analysis assumes one cooling train is ruptured by dropped cask, but other train is shielded by ruptured pipe.

NUREG 0612 Limits on Cask Handling Comment for SITE VISIT

Crane is single failure proof for 25-ton cask.

Cask Travel Over Safety Related Equipment Comment for SITE VISIT

Cask must pass over the component cooling system piping to enter pool.

Crane Travel Limitations Comment for SITE VISIT

Cask travel over pool is limited by the size of the L-shaped door opening in roof of the fuel building.

General Crane Comment for SITE VISIT

As of 10/86, NRC approval of TER-C5506 Phase 2 had not been received. Phase 1 was satisfied as of 11/83.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

=====

SPENT-FUEL POOL DATA FOR 1803

Source	Name	Fuel Type	Status	Configuration
SITE V	TURKEY POINT 3 FUEL POOL	PWR	OPERATIONAL	RECTANGULAR

Source	Spent-Fuel Pool Earthquake, Hurricane or Tornado Protection Requirements on Shipping?
SITE V	Yes

Spent-Fuel Pool Earthquake, Hurricane or Tornado Protection Requirements on Shipping Comment for SITE VISIT
 No shipments or cask handling permitted during severe weather warnings.

-----Pool Dimensions-----					
Source	Length	Width	Depth	Water Depth	Maximum Static Floor Loading
SITE V	41 Ft 4 In	25 Ft 4 In	40 Ft 4 In	39 Ft 0 In	2200.000 Lbs/Sq Ft

Spent-Fuel Pool Dimensions Comment for SITE VISIT

*** NONE ***

Spent-Fuel Pool Technology Comment for SITE VISIT

Racks are high density, SS, boraflex designed for consolidated fuel. Pool floor loading analysis will probably limit consolidated storage to 576 locations, although this would need confirmation prior to operations.

-----Storage Cell Data-----					
Source	Width of Fuel Assembly	Center to Center Spacing for Fuel Assembly Storage Cells		Fuel Assembly Storage Cell Cross-Section Side Dimension	
		REGION 1	REGION 2	REGION 1	REGION 2
SITE V	8.426 In	9.000 In	10.600 In	8.790 In	8.790 In

Source	Spent-Fuel Pool Connected With Another Storage Pool?	Connected Spent-Fuel Pool Number One	Connected Spent-Fuel Pool Number Two	Connected Spent-Fuel Pool Number Three
SITE V	No			

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

SPENT-FUEL POOL DATA FOR 1803 (Continued)

Source	Spent-Fuel Pool Shared by More Than One Reactor?	Sharing Reactor Number One	Sharing Reactor Number Two	Sharing Reactor Number Three
-----	-----	-----	-----	-----
SITE V	No			

General Spent-Fuel Pool Comment for SITE VISIT

Two region pool configuration. Cask loading area is not isolated from the fuel pool and is bounded by racks on 3 sides.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

CASK HANDLING DATA

***** CASK RECEIVING AREA *****

-----Access Limits-----			
Source	Configuration	Diameter/Width	Height/Length
SITE V	OTHER	42 Ft 0 In	H 77 Ft 9 In

Source	Is the Cask Receiving Area Enclosed?	Is the Cask Receiving Area an Air Lock?	Is There an Air Lock Other Than the Cask Receiving Area?
SITE V	No	No	No

Source	Configuration	Uniform Static Floor Load	Maximum Dynamic Load	Height	Length	Diameter/Width
SITE V	OTHER	1500 Lbs/Sq Ft	0.000 Lbs/Sq Ft	77 Ft 9 In	L 85 Ft 0 In	W 42 Ft 0 In

Cask Receiving Area Comment for SITE VISIT

Receiving area is outdoors and is an open area. Length is from cask decontamination boundary to onsite road. Height is from ground to crane hook palm at upper elevation.

***** CASK UPENDING AREA *****

*** NO SEPARATE CASK UPENDING AREA ***

***** CASK DECONTAMINATION AREA *****

-----Access Limits-----			
Source	Configuration	Diameter/Width	Height/Length
SITE V	RECTANGULAR	W 12 Ft 8 In	H 76 Ft 9 In

Source	Enclosed?	Configuration	Uniform Static Floor Load	Maximum Dynamic Load	Height	Length	Diameter/Width
SITE V	No	RECTANGULAR	C 0.00 Lbs/Sq Ft	0.000 Lbs/Sq Ft	77 Ft 9 In	25 Ft 0 In	W 9 Ft 3 In

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

CASK HANDLING DATA (Continued)

Source Cask Decontamination Area - Type of Decontamination Available

SITE V Manual

Cask Decontamination Area Comment for SITE VISIT

Area is open at top and front. Dimensions shown are most restrictive. Cooling water pipes pass adjacent to decontamination area. A 2.5 foot walkway surrounds the cask decontamination area on three sides, 13 feet above the floor. Width is the opening between the walkways. Width between walls is 14 feet, 9 inches. Floor is the same level as the receiving area and has no identified weight limit. FP&L plans to fit a removable roof to make enclosure.

***** CASK SET-DOWN (LOADING) AREA ACCESS *****

Source	Configuration	-----Plan View-----		-----Elevation View-----	
		Length	Diameter/Width	Height	Diameter/Width
SITE V	RECTANGULAR	16 Ft 0 In	W 14 Ft 0 In	37 Ft 9 In	W 16 Ft 0 In

Cask Set-Down (Loading) Area Access Comment for SITE VISIT

Door is inverted L-shaped (viewed in cross-section) covering vertical and horizontal opening in pool building directly above cask pit. Height is bottom of door opening (elevation 58 feet) to crane hook palm (elevation 95 feet 9 inches).

***** CASK INTERMEDIATE SET-DOWN LEVEL *****

*** NO SEPARATE CASK INTERMEDIATE SET-DOWN LEVEL ***

***** CASK SET-DOWN (LOADING) AREA *****

Source	Configuration	Uniform Static		Length	Diameter/Width	Depth Below Water Line
		Floor Loading	Maximum Dynamic Load			
SITE V	SQUARE	C 0.000 Lbs/Sq Ft	0.000 Lbs/Sq Ft	10 Ft 6 In	W 10 Ft 6 In	39 Ft 0 In

Cask Set-Down (Loading) Area Comment for SITE VISIT

No identified weight limit but only currently qualified for 25-ton casks.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

CASK HANDLING DATA (Continued)

Source	Impact Absorber on the Cask Set-Down (Loading) Area Floor?	Thickness	Construction
SITE V	No	0 Ft 0 In	

***** CASK SET-DOWN (LOADING) AREA - AUXILIARY DATA *****

Source	Is a Stand on Bottom of Loading Area Floor?	Height of Top of Stand Above Loading Area Floor	Overall Length of Fuel Assembly	Active Fuel Length
SITE V	N/A	0 Ft 0 In	13 Ft 5 In	12 Ft 0 In

Source	Length from Top of Assembly to Top of Active Fuel Length	Required Water Coverage Above Top of Assembly During Cask Loading	Max Height of Bottom of Assembly Above Loading Area Floor
SITE V	0 Ft 0 In	8 Ft 6 In	17 Ft 1 In

Required Water Coverage Above Top of Assembly During Cask Loading Comment for SITE VISIT

9 feet of water above active fuel region is required. Top of active fuel length is 12 feet 11 inches from the bottom of the assembly.

Spent-Fuel Pool Area Comment for SITE VISIT

*** NONE ***

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

CASK HANDLING SUMMARY DATA

***** SUMMARY ON-SITE VEHICLE LIMITS *****

Source	Weight	Diameter/Width	Length	Height	Road Distance	Road Configuration
SITE V	250.00 Tons	W 20 Ft 0 In	120 Ft 0 In	C 0 Ft 0 In	970 Ft	

Summary On-Site Vehicle Weight Limit Comment for SITE VISIT

Road has been used to transport 250-ton steam generators.

Summary On-Site Vehicle Diameter/Width Limit Comment for SITE VISIT

Width of access road.

Summary On-Site Vehicle Length Limit Comment for SITE VISIT

Length is distance from access road to receiving area.

Summary On-Site Vehicle Height Limit Comment for SITE VISIT

No height restrictions.

Summary On-Site Vehicle Road Distance and Configuration Comment for SITE VISIT

One right turn required - not restrictive.

***** SUMMARY CASK LIMITS *****

Source	Weight	Diameter/Width	Height/Length
SITE V	25.00 Tons	W 9 Ft 3 In	L 17 Ft 1 In

Summary Cask Weight Limit Comment for SITE VISIT

Limited by Technical Specifications to 25-ton cask. Cask drop analysis uses 25-ton cask.

Summary Cask Diameter/Width Limit Comment for SITE VISIT

Diameter limited by cask decontamination area.

Summary Cask Height/Length Limit Comment for SITE VISIT

Cask length restricted by maximum height of fuel assembly above pool floor.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

CASK HANDLING SUMMARY DATA (Continued)

***** SUMMARY CASK HANDLING CAPABILITY BASED ON DOE REFERENCE PARAMETERS *****

Source	Current Cask Handling Capability				Cask Handling Capability With Revised License or Ops. Instr.				Cask Handling Capability With Facility Modification			
	Truck Weight		Rail/Barge Weight		Truck Weight		Rail/Barge Weight		Truck Weight		Rail/Barge Weight	
	Legal	Over	100 Ton	125 Ton	Legal	Over	100 Ton	125 Ton	Legal	Over	100 Ton	125 Ton
SITE V	No	No	No	No	Yes	No	No	No	Yes	Yes	Yes	No

Current Cask Handling Capability Comment for SITE VISIT

DOE reference casks restricted from use by 17 ft. 1 inch length limit of fuel assembly clearance above loading area floor.

Cask Handling Capability with Revised License or Operating Instructions Comment for SITE VISIT

DOE reference cask would require revision to technical specification to reduce required water coverage.

Cask Handling Capability with Facility Modifications Comment for SITE VISIT

Use of a larger cask requires reanalysis of cask drop, and protection of cooling water pipes in decontamination area.

***** SUMMARY CASK HANDLING CAPABILITY BASED ON SECOND LEVEL ASSESSMENT CASK PARAMETERS *****

Source	Current Cask Handling Capability				Cask Handling Capability With Revised License or Ops. Instr.				Cask Handling Capability With Facility Modification			
	Truck Weight		Rail/Barge Weight		Truck Weight		Rail/Barge Weight		Truck Weight		Rail/Barge Weight	
	Legal	Over	100 Ton	125 Ton	Legal	Over	100 Ton	125 Ton	Legal	Over	100 Ton	125 Ton
SITE V	No	No	No	No	Yes	No	No	No	Yes	Yes	Yes	No

Current Cask Handling Capability Comment for SITE VISIT

Fuel assembly clearance is adequate for LWT cask (second level assessment parameters); however, current cask drop is for 25 tons maximum.

Cask Handling Capability with Revised License or Operating Instructions Comment for SITE VISIT

Needs cask drop analysis for 28 tons. Heavier casks would require protection of cooling water pipes in decontamination area.

Date of Site Visit : 08/09/88

TURKEY POINT 3

SITE/REACTOR INFORMATION

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CASK HANDLING SUMMARY DATA (Continued)

Cask Handling Capability with Facility Modifications Comment for SITE VISIT

Use of a larger cask requires reanalysis of cask drop, and protection of cooling water pipes in decontamination area.

***** OVERWEIGHT CASK COMMENTS *****

Plans and Capability to Use Overweight Truck Cask Comment for SITE VISIT

OWT shipping is feasible. Modifications to protect component cooling water piping in cask decon area would likely be required before handling casks larger than 25 tons.

Potential to Use Casks Heavier Than 125 Tons On-Site Comment for SITE VISIT

Modifications to crane and protection of cooling water piping would be required.

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Appendix 2:
SAMPLE FICA SUMMARY REPORT OUTPUT

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT
Site - Summary of the Site Visit

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	****	*****	*****
1	ARKANSAS NUCLEAR ONE UNIT 1 ARKANSAS POWER AND LIGHT COMPANY	04/06/89	PWR BABCOCK & WILCOX	2568 883	RUSSELLVILLE, AR	FRANK PHILPOTT Site Office
2	ARKANSAS NUCLEAR ONE UNIT 2 ARKANSAS POWER AND LIGHT COMPANY	04/06/89	PWR COMBUSTION ENGINEERING	2815 897	RUSSELLVILLE, AR	FRANK PHILPOTT Site Office
3	BEAVER VALLEY 1 DUQUESNE LIGHT COMPANY	09/08/88	PWR WESTINGHOUSE	2660 860	SHIPPINGPORT, PA	ROBERT D. SHERER Utility Office
4	BEAVER VALLEY 2 DUQUESNE LIGHT COMPANY	09/08/88	PWR WESTINGHOUSE	2660 888	SHIPPINGPORT, PA	ROBERT D. SHERER Utility Office
5	BIG ROCK POINT 1 CONSUMERS POWER COMPANY	08/03/88	BWR GENERAL ELECTRIC	240 75	CHARLEVOIX, MI	MIKE BOURASSA Site Office
6	BRAIDWOOD 1 COMMONWEALTH EDISON COMPANY	05/24/88	PWR WESTINGHOUSE	3425 1175	BRACEVILLE, IL	PATRICIA J. GARNIER Utility Office
7	BRAIDWOOD 2 COMMONWEALTH EDISON COMPANY	05/24/88	PWR WESTINGHOUSE	3425 1175	BRACEVILLE, IL	PATRICIA J. GARNIER Utility Office
8	BROWNS FERRY 1 TENNESSEE VALLEY AUTHORITY	05/10/89	BWR GENERAL ELECTRIC	3293 1098	DECATUR, AL	BOB MULLIN Utility Office
9	BROWNS FERRY 2 TENNESSEE VALLEY AUTHORITY	05/10/89	BWR GENERAL ELECTRIC	3293 1098	DECATUR, AL	BOB MULLIN Utility Office
10	BROWNS FERRY 3 TENNESSEE VALLEY AUTHORITY	05/10/89	BWR GENERAL ELECTRIC	3293 1098	DECATUR, AL	BOB MULLIN Utility Office
11	BRUNSWICK 1 CAROLINA POWER & LIGHT COMPANY	03/15/89	BWR GENERAL ELECTRIC	2436 790	SOUTHPORT, NC	ROBERT K. KUNITA Utility Office

Facility Interface Assessment (FICA) User Manual

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT
Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	*****	*****	*****
12	BRUNSWICK 2 CAROLINA POWER & LIGHT COMPANY	03/15/89	BWR GENERAL ELECTRIC	2436 790	SOUTHPORT, NC	ROBERT K. KUNITA Utility Office
13	BYRON 1 COMMONWEALTH EDISON COMPANY	05/25/88	PWR WESTINGHOUSE	3411 1175	BYRON, IL	PATRICIA J. GARNIER Utility Office
14	BYRON 2 COMMONWEALTH EDISON COMPANY	05/25/88	PWR WESTINGHOUSE	3411 1175	BYRON, IL	PATRICIA J. GARNIER Utility Office
15	CALLAWAY 1 UNION ELECTRIC COMPANY	07/26/88	PWR WESTINGHOUSE	3565 1200	FULTON, MO	ALAN C. PASSWATER Utility Office
16	CALVERT CLIFFS 1 BALTIMORE GAS AND ELECTRIC COMPANY	10/31/89	PWR COMBUSTION ENGINEERING	2700 860	LUSBY, MD	KEN ALLOR Site Office
17	CALVERT CLIFFS 2 BALTIMORE GAS AND ELECTRIC COMPANY	10/31/89	PWR COMBUSTION ENGINEERING	2700 860	LUSBY, MD	KEN ALLOR Site Office
18	CATAWBA UNIT 1 DUKE POWER COMPANY	03/29/88	PWR WESTINGHOUSE	3411 1192	CLOVER, SC	ROBERT W. RASMUSSEN Utility Office
19	CATAWBA UNIT 2 DUKE POWER COMPANY	03/29/88	PWR WESTINGHOUSE	3411 1192	CLOVER, SC	ROBERT W. RASMUSSEN Utility Office
20	CLINTON 1 ILLINOIS POWER COMPANY	07/20/88	BWR GENERAL ELECTRIC	2894 933	CLINTON, IL	FRANK SPANGENBURG Site Office
21	COMANCHE PEAK 1 TU ELECTRIC	01/19/89	PWR WESTINGHOUSE	3411 1150	GLEN ROSE, TX	B.W. COSS Utility Office
22	COMANCHE PEAK 2 TU ELECTRIC	01/19/89	PWR WESTINGHOUSE	3411 1150	GLEN ROSE, TX	B.W. COSS Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	*****	*****	*****
23	COOPER NUCLEAR STATION NEBRASKA PUBLIC POWER DISTRICT	06/20/88	BWR GENERAL ELECTRIC	2381 787	BROWNVILLE, NE	PAUL BALLINGER Site Office
24	CRYSTAL RIVER 3 FLORIDA POWER CORPORATION	07/28/87	PWR BABCOCK & WILCOX	2544 860	CRYSTAL RIVER, FL	C. MICHAEL CALLIHAN Utility Office
25	DAVIS-BESSE NUCLEAR POWER STATION TOLEDO EDISON CO	04/27/89	PWR BABCOCK & WILCOX	2772 904	OAK HARBOR, OH	DR. JAMES KUTCHER Site Office
26	DC COOK 1 INDIANA MICHIGAN POWER COMPANY	10/05/89	PWR WESTINGHOUSE	3250 1020	BRIDGMAN, MI	ERIC LEWIS Utility Office
27	DC COOK 2 INDIANA MICHIGAN POWER COMPANY	10/05/89	PWR WESTINGHOUSE	3411 1060	BRIDGMAN, MI	ERIC LEWIS Utility Office
28	DIABLO CANYON 1 PACIFIC GAS AND ELECTRIC COMPANY	08/31/88	PWR WESTINGHOUSE	3338 1125	AVILA BEACH, CA	ROBERT W. LORENZ Utility Office
29	DIABLO CANYON 2 PACIFIC GAS AND ELECTRIC COMPANY	08/31/88	PWR WESTINGHOUSE	3411 1130	AVILA BEACH, CA	ROBERT W. LORENZ Utility Office
30	DRESDEN 1 COMMONWEALTH EDISON COMPANY	09/11/89	BWR GENERAL ELECTRIC	700 205	MORRIS, IL	PATRICIA J. GARNIER Utility Office
31	DRESDEN 2 COMMONWEALTH EDISON COMPANY	09/11/89	BWR GENERAL ELECTRIC	2527 812	MORRIS, IL	PATRICIA J. GARNIER Utility Office
32	DRESDEN 3 COMMONWEALTH EDISON COMPANY	09/11/89	BWR GENERAL ELECTRIC	2527 812	MORRIS, IL	PATRICIA J. GARNIER Utility Office
33	DUANE ARNOLD ENERGY CENTER IOWA ELECTRIC LIGHT & POWER COMPANY	06/15/88	BWR GENERAL ELECTRIC	1658 545	PALO, IA	DR. WALTER C. NODEAN Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	*****	*****	*****
34	FARLEY 1 ALABAMA POWER COMPANY	07/29/88	PWR WESTINGHOUSE	2652 860	ASHFORD, AL	M. D. RICKLES Utility Office
35	FARLEY 2 ALABAMA POWER COMPANY	07/29/88	PWR WESTINGHOUSE	2652 860	ASHFORD, AL	M. D. RICKLES Utility Office
36	FERMI 2 DETROIT EDISON COMPANY	08/12/88	BWR GENERAL ELECTRIC	3292 1150	NEWPORT, MI	ADDISON D. SMART Site Office
37	FORT CALHOUN 1 OMAHA PUBLIC POWER DISTRICT	05/26/88	PWR COMBUSTION ENGINEERING	1500 490	FORT CALHOUN, NE	DAN D. KLOOCK Utility Office
38	FORT SAINT VRAIN PUBLIC SERVICE COMPANY OF COLORADO	02/14/89	HTG GENERAL ATOMIC COMPANY	842 342	PLATTEVILLE, CO	STEVE SHERROW Site Office
39	GRAND GULF 1 ENTERGY OPERATIONS, INC.	07/07/89	BWR GENERAL ELECTRIC	3833 1306	PORT GIBSON, MS	TOMMY ERRINGTON Site Office
40	HADDAM NECK CONNECTICUT YANKEE ATOMIC POWER COMPANY	02/28/89	PWR WESTINGHOUSE	1825 582	EAST HAMPTON, CT	GERRY P. VAN NOORDENEN Utility Office
41	HARRIS 1 CAROLINA POWER & LIGHT COMPANY	02/10/89	PWR WESTINGHOUSE	2775 920	NEW HILL, NC	ROBERT K. KUNITA Utility Office
42	HATCH 1 GEORGIA POWER COMPANY	08/03/88	BWR GENERAL ELECTRIC	2436 801	BAXLEY, GA	RAY BAKER Utility Office
43	HATCH 2 GEORGIA POWER COMPANY	08/03/88	BWR GENERAL ELECTRIC	2436 804	BAXLEY, GA	RAY BAKER Utility Office
44	HOPE CREEK 1 PUBLIC SERVICE ELECTRIC AND GAS COMPANY	03/29/89	BWR GENERAL ELECTRIC	3293 1090	HANCOCKS BRIDGE, NJ	QURESH DAHODWALA Site Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	****	*****	*****
45	HUMBOLDT BAY POWER PLANT UNIT 3 PACIFIC GAS AND ELECTRIC COMPANY	09/01/88	BWR GENERAL ELECTRIC	220 65	EUREKA, CA	ROBERT W. LORENZ Utility Office
46	INDIAN POINT 1 CONSOLIDATED EDISON COMPANY	05/11/89	PWR BABCOCK & WILCOX	615 285	BUCHANAN, NY	RICHARD REMSHAW Utility Office
47	INDIAN POINT 2 CONSOLIDATED EDISON COMPANY	05/11/89	PWR WESTINGHOUSE	2758 1007	BUCHANAN, NY	RICHARD REMSHAW Utility Office
48	INDIAN POINT 3 NEW YORK POWER AUTHORITY	05/11/89	PWR WESTINGHOUSE	3025 1025	BUCHANAN, NY	S.R. RAJAN Utility Office
49	J.A. FITZPATRICK NEW YORK POWER AUTHORITY	01/09/90	BWR GENERAL ELECTRIC	2436 849	LYCOMING, NY	WILLIAM R. YARIO Utility Office
50	KEWAUNEE 1 WISCONSIN PUBLIC SERVICE CORPORATION	08/24/88	PWR WESTINGHOUSE	1650 560	KEWAUNEE, WI	DANIEL J. ROPSON Utility Office
51	LA CROSSE DAIRYLAND POWER COOPERATIVE	01/12/89	BWR ALLIS-CHALMERS	165 50	GENOA, WI	DR. SEYMOUR J. RAFFETY Site Office
52	LASALLE 1 COMMONWEALTH EDISON COMPANY	08/23/89	BWR GENERAL ELECTRIC	3323 1132	MARSEILLES, IL	PATRICIA J. GARNIER Utility Office
53	LASALLE 2 COMMONWEALTH EDISON COMPANY	08/23/89	BWR GENERAL ELECTRIC	3323 1132	MARSEILLES, IL	PATRICIA J. GARNIER Utility Office
54	LIMERICK 1 GENERATING STATION PHILADELPHIA ELECTRIC COMPANY	12/03/87	BWR GENERAL ELECTRIC	3293 1092	POTTSTOWN, PA	AMY C. COLLINGE Utility Office
55	LIMERICK 2 GENERATING STATION PHILADELPHIA ELECTRIC COMPANY	12/03/87	BWR GENERAL ELECTRIC	3293 1092	POTTSTOWN, PA	AMY C. COLLINGE Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	****	*****	*****
56	MAINE YANKEE MAINE YANKEE ATOMIC POWER COMPANY	06/02/88	PWR COMBUSTION ENGINEERING	2700 870	WISCASSET, ME	S.E. NICHOLS Site Office
57	MCGUIRE UNIT 1 DUKE POWER COMPANY	02/23/88	PWR WESTINGHOUSE	3411 1171	CORNELIUS, NC	ROBERT W. RASMUSSEN Utility Office
58	MCGUIRE UNIT 2 DUKE POWER COMPANY	02/23/88	PWR WESTINGHOUSE	3411 1171	CORNELIUS, NC	ROBERT W. RASMUSSEN Utility Office
59	MILLSTONE UNIT 1 NORTHEAST NUCLEAR ENERGY COMPANY	10/13/87	BWR GENERAL ELECTRIC	2011 684	WATERFORD, CT	GERRY P. VAN NOORDENEN Utility Office
60	MILLSTONE UNIT 2 NORTHEAST NUCLEAR ENERGY COMPANY	10/13/87	PWR COMBUSTION ENGINEERING	2700 894	WATERFORD, CT	GERRY P. VAN NOORDENEN Utility Office
61	MILLSTONE UNIT 3 NORTHEAST NUCLEAR ENERGY COMPANY	10/13/87	PWR WESTINGHOUSE	3411 1197	WATERFORD, CT	GERRY P. VAN NOORDENEN Utility Office
62	MONTICELLO NORTHERN STATES POWER COMPANY	07/28/88	BWR GENERAL ELECTRIC	1670 553	MONTICELLO, MN	JOHN CLOSS Utility Office
63	MORRIS OPERATIONS MORRIS OPERATIONS	04/21/89	AFR NOT APPLICABLE	0 0	MORRIS, IL	GENE INGELS Site Office
64	NINE MILE POINT 1 NIAGARA MOHAWK POWER CORPORATION	07/12/89	BWR GENERAL ELECTRIC	1850 620	LYCOMING, NY	G.K. RHODE Utility Office
65	NINE MILE POINT 2 NIAGARA MOHAWK POWER CORPORATION	07/12/89	BWR GENERAL ELECTRIC	3323 1150	LYCOMING, NY	G.K. RHODE Utility Office
66	NORTH ANNA 1 VIRGINIA POWER	08/18/88	PWR WESTINGHOUSE	2893 982	MINERAL, VA	MARVIN L. SMITH Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	*****	*****	*****
67	NORTH ANNA 2 VIRGINIA POWER	08/18/88	PWR WESTINGHOUSE	2893 982	MINERAL, VA	MARVIN L. SMITH Utility Office
68	OCONEE UNIT 1 DUKE POWER COMPANY	06/02/88	PWR BABCOCK & WILCOX	2568 886	SENECA, SC	ROBERT W. RASMUSSEN Utility Office
69	OCONEE UNIT 2 DUKE POWER COMPANY	06/02/88	PWR BABCOCK & WILCOX	2568 886	SENECA, SC	ROBERT W. RASMUSSEN Utility Office
70	OCONEE UNIT 3 DUKE POWER COMPANY	06/02/88	PWR BABCOCK & WILCOX	2568 886	SENECA, SC	ROBERT W. RASMUSSEN Utility Office
71	OYSTER CREEK 1 JERSEY CENTRAL POWER AND LIGHT COMPANY	10/19/89	BWR GENERAL ELECTRIC	1930 650	FORKED RIVER, NJ	JOHN A. VINCENT Utility Office
72	PALISADES NUCLEAR PLANT CONSUMERS POWER COMPANY	08/10/88	PWR COMBUSTION ENGINEERING	2530 795	COVERT, MI	JOHN R. KNEELAND, JR. Site Office
73	PALO VERDE 1 ARIZONA PUBLIC SERVICE COMPANY	12/01/88	PWR COMBUSTION ENGINEERING	3800 1303	WINTERSBURG, AZ	SHARON L. LAWSON Site Office
74	PALO VERDE 2 ARIZONA PUBLIC SERVICE COMPANY	12/01/88	PWR COMBUSTION ENGINEERING	3800 1303	WINTERSBURG, AZ	SHARON L. LAWSON Site Office
75	PALO VERDE 3 ARIZONA PUBLIC SERVICE COMPANY	12/01/88	PWR COMBUSTION ENGINEERING	3800 1303	WINTERSBURG, AZ	SHARON L. LAWSON Site Office
76	PEACH BOTTOM UNIT 2 PHILADELPHIA ELECTRIC COMPANY	08/19/87	BWR GENERAL ELECTRIC	3293 1098	DELTA, PA	AMY COLLINGE Utility Office
77	PEACH BOTTOM UNIT 3 PHILADELPHIA ELECTRIC COMPANY	08/19/87	BWR GENERAL ELECTRIC	3293 1098	DELTA, PA	AMY COLLINGE Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT
Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	*****	*****	*****
78	PERRY 1 CLEVELAND ELECTRIC ILLUMINATING COMPANY	10/24/89	BWR GENERAL ELECTRIC	3579 1250	PERRY, OH	DR. JAMES W. KUTCHER Utility Office
79	PILGRIM 1 BOSTON EDISON CO	03/22/90	BWR GENERAL ELECTRIC	1998 690	PLYMOUTH, MA	JOHN H. PIASCIK Utility Office
80	POINT BEACH 1 WISCONSIN ELECTRIC POWER COMPANY	07/28/88	PWR WESTINGHOUSE	1518 524	TWO RIVERS, WI	DAVID K. ZABRANSKY Utility Office
81	POINT BEACH 2 WISCONSIN ELECTRIC POWER COMPANY	07/28/88	PWR WESTINGHOUSE	1518 497	TWO RIVERS, WI	DAVID K. ZABRANSKY Utility Office
82	PRAIRIE ISLAND NUCLEAR GENERATING NORTHERN STATES POWER COMPANY	P12/20/88	PWR WESTINGHOUSE	1650 534	WELCH, MN	JOHN CLOSS Utility Office
83	PRAIRIE ISLAND NUCLEAR GENERATING NORTHERN STATES POWER COMPANY	P12/20/88	PWR WESTINGHOUSE	1650 534	WELCH, MN	JOHN CLOSS Utility Office
84	QUAD CITIES 1 COMMONWEALTH EDISON COMPANY	09/10/89	BWR GENERAL ELECTRIC	2511 813	CORDOVA, IL	PATRICIA J. GARNIER Utility Office
85	QUAD CITIES 2 COMMONWEALTH EDISON COMPANY	09/10/89	BWR GENERAL ELECTRIC	2511 813	CORDOVA, IL	PATRICIA J. GARNIER Utility Office
86	R.E. GINNA ROCHESTER GAS AND ELECTRIC CORPORATION	06/20/89	PWR WESTINGHOUSE	1520 490	ONTARIO, NY	ANTON A. FUIERER Utility Office
87	RANCHO SECO 1 SACRAMENTO MUNICIPAL UTILITY DISTRICT	09/14/88	PWR BABCOCK & WILCOX	2772 963	HERALD, CA	TAJ KHAN Site Office
88	RIVER BEND 1 GULF STATES UTILITIES	07/19/88	BWR GENERAL ELECTRIC	2894 991	ST. FRANCISVILLE, LA	JOHN E. BARRY Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	*****	*****	*****
89	ROBINSON 2 CAROLINA POWER & LIGHT COMPANY	03/23/89	PWR WESTINGHOUSE	2300 700	HARTSVILLE, SC	ROBERT K. KUNITA Utility Office
90	SALEM 1 PUBLIC SERVICE ELECTRIC AND GAS COMPANY	03/28/89	PWR WESTINGHOUSE	3411 1149	HANCOCKS BRIDGE, NJ	QURESH DAHODWALA Site Office
91	SALEM 2 PUBLIC SERVICE ELECTRIC AND GAS COMPANY	03/28/89	PWR WESTINGHOUSE	3411 1149	HANCOCKS BRIDGE, NJ	QURESH DAHODWALA Site Office
92	SAN ONOFRE 1 SOUTHERN CALIFORNIA EDISON COMPANY	11/03/88	PWR WESTINGHOUSE	1347 456	SAN CLEMENTE, CA	PAUL D. MYERS Utility Office
93	SAN ONOFRE 2 SOUTHERN CALIFORNIA EDISON COMPANY	11/03/88	PWR COMBUSTION ENGINEERING	3390 1127	SAN CLEMENTE, CA	PAUL D. MYERS Utility Office
94	SAN ONOFRE 3 SOUTHERN CALIFORNIA EDISON COMPANY	11/03/88	PWR COMBUSTION ENGINEERING	3390 1127	SAN CLEMENTE, CA	PAUL D. MYERS Utility Office
95	SEABROOK NEW HAMPSHIRE YANKEE DIVISION OF PSNH	02/16/89	PWR WESTINGHOUSE	3425 1200	SEABROOK, NH	WALTER B. STURGEON, JR. Site Office
96	SEQUOYAH 1 TENNESSEE VALLEY AUTHORITY	04/18/89	PWR WESTINGHOUSE	3411 1183	SODDY-DAISY, TN	BOB MULLIN Utility Office
97	SEQUOYAH 2 TENNESSEE VALLEY AUTHORITY	04/18/89	PWR WESTINGHOUSE	3411 1183	SODDY-DAISY, TN	BOB MULLIN Utility Office
98	SHOREHAM LONG ISLAND LIGHTING COMPANY	02/28/89	BWR GENERAL ELECTRIC	2436 820	WADING RIVER, NY	SHELDON I. SCHREINER Site Office
99	SOUTH TEXAS 1 HOUSTON LIGHTING AND POWER COMPANY	04/19/89	PWR WESTINGHOUSE	3800 1312	WADSWORTH, TX	J.R. WORDEN Site Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
=====	=====	=====	=====	=====	=====	=====
100	SOUTH TEXAS 2 HOUSTON LIGHTING AND POWER COMPANY	04/19/89	PWR WESTINGHOUSE	3800 1312	WADSWORTH, TX	J.R. WORDEN Site Office
101	ST. LUCIE 1 FLORIDA POWER & LIGHT CO.	07/13/87	PWR COMBUSTION ENGINEERING	2700 872	FORT PIERCE, FL	GEORGE T. ZAMRY Utility Office
102	ST. LUCIE 2 FLORIDA POWER & LIGHT CO.	07/13/87	PWR COMBUSTION ENGINEERING	2700 882	FORT PIERCE, FL	GEORGE T. ZAMRY Utility Office
103	SURRY UNIT 1 VIRGINIA POWER	09/29/87	PWR WESTINGHOUSE	2441 823	SURRY, VA	MARVIN L. SMITH Utility Office
104	SURRY UNIT 2 VIRGINIA POWER	09/29/87	PWR WESTINGHOUSE	2441 823	SURRY, VA	MARVIN L. SMITH Utility Office
105	SUSQUEHANNA 1 PENNSYLVANIA POWER AND LIGHT COMPANY	02/28/89	BWR GENERAL ELECTRIC	3293 1085	BERWICK, PA	HOWARD R. VERNICK Utility Office
106	SUSQUEHANNA 2 PENNSYLVANIA POWER AND LIGHT COMPANY	02/28/89	BWR GENERAL ELECTRIC	3293 1085	BERWICK, PA	HOWARD R. VERNICK Utility Office
107	THREE MILE ISLAND 1 GPU NUCLEAR CORPORATION	10/19/89	PWR BABCOCK & WILCOX	2568 871	MIDDLETOWN, PA	JOHN A. VINCENT Utility Office
108	TROJAN PORTLAND GENERAL ELECTRIC COMPANY	12/07/88	PWR WESTINGHOUSE	3411 1153	RAINIER, OR	GARY BAIR Site Office
109	TURKEY POINT 3 FLORIDA POWER & LIGHT COMPANY	08/09/88	PWR WESTINGHOUSE	2200 700	MIAMI, FL	GEORGE T. ZAMRY Utility Office
110	TURKEY POINT 4 FLORIDA POWER & LIGHT COMPANY	08/09/88	PWR WESTINGHOUSE	2200 700	MIAMI, FL	GEORGE T. ZAMRY Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
*****	*****	*****	*****	****	*****	*****
111	V.C. SUMMER 1 SOUTH CAROLINA ELECTRIC AND GAS COMPANY	01/25/89	PWR WESTINGHOUSE	2775 922	JENKINSVILLE, SC	DOUGLAS WARNER Site Office
112	VERMONT YANKEE VERMONT YANKEE NUCLEAR POWER CORPORATION	05/02/89	BWR GENERAL ELECTRIC	1593 535	VERNON, VT	H. MICHAEL METELL Utility Office
113	VOGTLE 1 GEORGIA POWER COMPANY	06/30/88	PWR WESTINGHOUSE	3411 1157	WAYNESBORO, GA	ROBERT FLORIAN Utility Office
114	VOGTLE 2 GEORGIA POWER COMPANY	06/30/88	PWR WESTINGHOUSE	3411 1157	WAYNESBORO, GA	ROBERT FLORIAN Utility Office
115	WASHINGTON NUCLEAR PLANT 2 WASHINGTON PUBLIC POWER SUPPLY SYSTEM	07/27/88	BWR GENERAL ELECTRIC	3323 1153	RICHLAND, WA	DAVID L. LARKIN Utility Office
116	WATERFORD 3 LOUISIANA POWER AND LIGHT COMPANY	06/29/88	PWR COMBUSTION ENGINEERING	3390 1075	KILLONA, LA	JOHN L. ETHERIDGE Utility Office
117	WATTS BAR 1 TENNESSEE VALLEY AUTHORITY	04/20/89	PWR WESTINGHOUSE	3411 1270	SPRING CITY, TN	BOB MULLIN Utility Office
118	WATTS BAR 2 TENNESSEE VALLEY AUTHORITY	04/20/89	PWR WESTINGHOUSE	3411 1270	SPRING CITY, TN	BOB MULLIN Utility Office
119	WOLF CREEK WOLF CREEK NUCLEAR OPERATING CORPORATION	05/18/88	PWR WESTINGHOUSE	3411 1181	BURLINGTON, KS	PAUL ADAM Site Office
120	YANKEE NUCLEAR POWER STATION YANKEE ATOMIC ELECTRIC COMPANY	07/08/88	PWR WESTINGHOUSE	600 183	ROWE, MA	JOHN M. BUCHHEIT Utility Office
121	ZION 1 COMMONWEALTH EDISON COMPANY	08/21/89	PWR WESTINGHOUSE	3250 1085	ZION, IL	PATRICIA J. GARNIER Utility Office

FACILITY INTERFACE CAPABILITY ASSESSMENT SUMMARY REPORT

Site - Summary of the Site Visit (Continued)

Facility Number	Name of Reactor / Name of Utility or Operator	Site Visit Date	Type of Facility / NSSS Vendor Name	MWth/ MWe	Plant Location: City, State	Utility Contact: Name Location
122	ZION 2 COMMONWEALTH EDISON COMPANY	08/21/89	PWR WESTINGHOUSE	3250 1085	ZION, IL	PATRICIA J. GARNIER Utility Office

Appendix 3:
FACILITY INTERFACE CAPABILITY ASSESSMENT
DATA ITEM DESCRIPTIONS

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**Facility Interface Capability Assessment
Data Item Descriptions - Site/Reactor Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
SH-ID	A12	<p>Site ID</p> <p>Abbreviation used in the Facility Interface Capability Assessment (FICA) database for the identification of the site name.</p>
SH-SITE	A42	<p>Site Name</p> <p>Complete site name as given by the utility.</p>
SH-COUNTY	A25	<p>County</p> <p>Name of the county in which the site is located.</p>
SH-TN	A20	<p>Site Telephone</p> <p>Telephone number for the site.</p>
SH-ADDR	A30	<p>Site Mailing Address</p> <p>Business address (Post Office [P.O.] box or route number, etc., part of the mailing address) for the site.</p>
SH-CITY	A40	<p>Mailing Address - City</p> <p>Name of city part of the mailing address for the site.</p>
SH-STA	A2	<p>Mailing Address - State</p> <p>Two-letter United States Postal Service (USPS) state designation part of the mailing address for the site.</p>
SH-ZIP	A10	<p>Mailing Address - Zip Code</p> <p>Nine-digit zip code (last four if available) part of the mailing address for the site.</p>
SH-S-ADDR	A30	<p>Site Shipping Address</p> <p>Street address, route number, etc., part of the shipping address for the site.</p>
SH-S-CITY	A40	<p>Shipping Address - City</p> <p>Name of the city part of the shipping address for the site.</p>
SH-S-STA	A2	<p>Shipping Address - State</p> <p>Two letter USPS state designation part of the shipping address for the site.</p>
SH-S-ZIP	A10	<p>Shipping Address - Zip Code</p>

Facility Interface Capability Assessment
Data Item Descriptions - Site/Reactor Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Nine-digit zip code (last four if available) part of the shipping address for the site.
RH-ID	A12	Reactor ID Name of the reactor used in the FICA database.
RH-T	A5	Type Reactor type, i.e. pressurized water reactor (PWR), boiling water reactor (BWR), or high temperature gas reactor (HTGR).
RH-NSSS	A30	NSSS Vendor Name of the vendor that designed the Nuclear Steam Supply System (NSSS); for example, General Electric, Westinghouse, etc.
RH-AE-NM	A30	Architect/Engineer Name of the architect/engineer contracted to design and build the balance of plant (exclusive of NSSS design).
RH-MW	16	MWT Licensed maximum thermal power rating of the reactor in units of megawatts thermal (MWT) authorized by the Nuclear Regulatory Commission (NRC).
RH-MWE	16	Gross MWe Maximum dependable gross electrical output in units of megawatts electrical (MWe) from the turbine generator.
RH-ST	A18	Status Operational status (UNDER CONSTRUCTION, OPERATING, PERMANENT SHUTDOWN or DECOMMISSIONED) of the reactor. A reactor which is shutdown due to maintenance and refueling operations would be listed as OPERATING.
RH-UT-NM	A42	Utility Name of the utility licensee.
RH-HC-NM	A42	Holding Company Name of the holding company or utility group for the utility. Omitted if the operating utility is not part of a holding company or a utility group.
RH-NRC-DN	A10	USNRC Docket Number

Facility Interface Capability Assessment
Data Item Descriptions - Site/Reactor Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Docket number allocated to the reactor by the NRC.
RH-DOE-C-1	A17	DOE Contract Number One First utility contract number allocated to the reactor by the Department of Energy (DOE) under the Nuclear Waste Policy Act (NWPA) of 1982 for the ultimate disposal of spent fuel.
RH-DOE-C-2	A17	DOE Contract Number Two Second (if applicable) utility contract number allocated to the reactor by DOE under NWPA of 1982 for the ultimate disposal of spent fuel.
RH-DOE-C-3	A17	DOE Contract Number Three Third (if applicable) utility contract number allocated to the reactor by DOE under NWPA of 1982 for the ultimate disposal of spent fuel.
RH-DOE-C-4	A17	DOE Contract Number Four Fourth (if applicable) utility contract number allocated to the reactor by DOE under NWPA of 1982 for the ultimate disposal of spent fuel.
RH-INIS	A4	INIS Unit ID Identification (ID) number in DOE's Integrated Nuclear Information System (INIS). This ID number is used in the RW-859 database for the reactor's pool (or pools).
RH-MC-NM	A40	Current Contact Name Name of current FICA contact for the reactor.
RH-MC-POS	A30	Current Contact Position Title of the person who is the current FICA contact.
RH-MC-TM	A20	Current Contact Telephone Business telephone number of the current FICA contact person.
RH-MC-FAX	A20	Current Contact FAX Facsimile (telecopy) number of the current FICA contact person.
RH-MC-SORU	A1	Current Contact Site or Utility Office

Facility Interface Capability Assessment
Data Item Descriptions - Site/Reactor Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Designation for location of current FICA contact person (SITE or UTILITY). UTILITY indicates that the FICA contact person is located at the utility corporate office.
RH-UT-TN	A20	Utility Office Telephone Business telephone number (main switchboard number) for the utility corporate office.
RH-MC-ADDR	A30	Utility Office Mailing Address Business address (P.O. box or route number, etc., part of the mailing address) for the utility corporate office.
RH-MC-CITY	A40	Utility Office Mailing Address - City Name of city part of the mailing address for the utility corporate office.
RH-MC-STA	A2	Utility Office Mailing Address - State Two-letter USPS state designation part of the mailing address for the utility corporate office.
RH-MC-ZIP	A10	Utility Office Mailing Address - Zip Code Nine-digit zip code (last four if available) part of the mailing address for the utility corporate office.
RH-SA-ADDR	A30	Utility Office Shipping Address Street address, route number, etc., part of the shipping address for the utility corporate office.
RH-SA-CITY	A40	Utility Office Shipping Address - City Name of the city part of the shipping address for the utility corporate office.
RH-SA-STA	A2	Utility Office Shipping Address - State Two letter USPS state designation part of the shipping address for the utility corporate office.
RH-SA-ZIP	A10	Utility Office Shipping Address - Zip Code Nine-digit zip code (last four if available) part of the shipping address for the utility corporate office.
SH-C	A254	General Site/Reactor Header Comment Comments (if applicable) on site/reactor header information.
SI-C	A254	General Site/Reactor Comment

Facility Interface Capability Assessment
Data Item Descriptions - Site/Reactor Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
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Comments (if applicable) on the number of reactors that are located on the site, shared cask handling facilities, etc.

**Facility Interface Capability Assessment
Data Item Descriptions - Off-Site Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
SI-IH-NM	A11	Interstate Highway - Number The nearest interstate highway to the site, or the one preferred by the utility as the most easily accessible one from the site.
SI-IH-ST	A18	Interstate Highway - Status Status (OPERATIONAL or UNDER CONSTRUCTION) of the nearest or most easily accessible interstate highway to the site.
SI-IH-A-MM	A80	Off-Site Road Route to Interstate Highway Name(s) and/or route numbers for interstate highway off-site access road(s) which a loaded cask transport vehicle would use from the site gate to the nearest or most easily accessible interstate interchange to the site.
SI-IH-A-DT	F7.2	Off-Site Road Route to Interstate Highway - Total Distance (Miles) Total off-site access road distance (in miles) from the site gate to the nearest interstate highway interchange to be accessed.
SI-IH-A-UC	F7.2	Off-Site Road Route to Interstate Highway - Distance Under Utility Control (Miles) Portion of the off-site access road total distance (in miles) from the site gate to the nearest or most easily accessible interstate highway interchange to be accessed that is under utility control.
SI-IH-A-WL	I6	Off-Site Road Route to Interstate Highway - Vehicle Limits - Weight (Lbs) Total vehicle (tractor plus trailer) weight limitation (in pounds) for the interstate highway off-site access road(s).
SI-IH-A-H	212	Off-Site Road Route to Interstate Highway - Vehicle Limits - Height (Feet, Inches) Total vehicle height limitation (in feet and inches) for the interstate highway off-site access road(s).
SI-IH-A-L	212	Off-Site Road Route to Interstate Highway - Vehicle Limits - Length (Feet, Inches) Total vehicle length limitation (in feet and inches) for the interstate highway off-site access road(s).
SI-IH-A-W	212	Off-Site Road Route to Interstate Highway - Vehicle Limits - Width (Feet, Inches) Total vehicle width limitation (in feet and inches) for the interstate highway off-site access road(s).
SI-IH-C	A254	Off-Site Access Road(s) to Interstate Highway Comment

**Facility Interface Capability Assessment
Data Item Descriptions - Off-Site Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Comments (if applicable) related to the access roads from the site to the interstate highway.
SI-RR-OS-Q	A1	On-Site Railhead/Rail Spur? Yes if there is a railhead or rail spur on-site (i.e., if railroad tracks currently exist within the site - boundary), otherwise No.
SI-RR-NH	A30	Off-Site Railhead/Rail Spur - Name Name or designation of the nearest off-site railhead or rail spur (not within the site boundary) to be accessed from the site. Omitted if a railhead or rail spur is on-site, or not on-site and more than 50 road miles away from the site.
SI-RR-ST	A18	Off-Site Railhead/Rail Spur - Status Status (OPERATIONAL, UNDER CONSTRUCTION or INACTIVE) of the nearest railhead or rail spur to be accessed from this site. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 access road miles away.
SI-RR-WT	16	Off-Site Railhead/Rail Spur - Weight Limit (Lbs) Weight limitation (in pounds) of the off-site railhead or rail spur.
SI-RR-C1NH	A30	Off-Site Railhead/Rail Spur - Carrier Name Name of the primary rail carrier using the off-site railhead or rail spur. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-OWN	A30	Off-Site Railhead/Rail Spur - Owner Owner of the off-site railhead or rail spur to be accessed. (This name may be the same as, or different from, the carrier name.) Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-A-NH	A80	Road Route to Off-Site Railhead/Rail Spur Names and/or route numbers for the off-site access road(s) which a loaded cask transport vehicle would use from the site gate to the nearest off-site railhead or rail spur to be accessed. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-A-DT	F7.2	Road Route to Off-Site Railhead/Rail Spur - Total Distance (Miles) Off-Site access road distance (in miles) from the site gate to the nearest off-site railhead or rail spur to

**Facility Interface Capability Assessment
Data Item Descriptions - Off-Site Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		be accessed. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-A-UC	F7.2	Road Route to Off-Site Railhead/Rail Spur - Distance Under Utility Control (Miles) Portion of the off-site access road total distance (in miles) from the site gate to the nearest railhead or rail spur to be accessed that is under utility control.
SI-RR-A-WL	16	Road Route to Off-Site Railhead/Rail Spur - Vehicle Limits - Weight (Lbs) Total vehicle (tractor and trailer) weight limitation (in pounds) for the access road(s) to the off-site railhead or rail spur. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-A-H	212	Road Route to Off-Site Railhead/Rail Spur - Vehicle Limits - Height (Feet, Inches) Total vehicle height limitations (in feet and inches) for the access road(s) to the off-site railhead or rail spur. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-A-L	212	Road Route to Off-Site Railhead/Rail Spur - Vehicle Limits - Length (Feet, Inches) Total vehicle length limitation (in feet and inches) for the access road(s) to the off-site railhead or rail spur. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-A-W	212	Road Route to Off-Site Railhead/Rail Spur - Vehicle Limits - Width (Feet, Inches) Total vehicle width limitation (in feet and inches) for the access road(s) to the off-site railhead or rail spur. Omitted if a railhead or rail spur is on-site or not on-site and more than 50 road miles away.
SI-RR-C	A254	Off-Site Railhead/Rail Spur Comment Comments (if applicable) related to the access roads from the site to the off-site railhead or rail spur.
SI-BS-OS-Q	A1	On-Site Barge/Ship Loading Facility Yes if a barge loading facility currently exists on-site, or if the utility says there is a suitable area on-site for barge unloading, otherwise No. A site is considered as having barge capability if a barge facility has ever been provided at the site in the past, regardless of whether the facility still exists.
SI-B-H	13, 12	Off-Site Bridge Height Limit (Feet, Inches) Off-Site bridge height limitation (in feet and inches) for the access route from the site to the barge or ship loading facility. Limited to barge facilities within a 50-mile radius of the site.
SI-BG-NM	A30	Off-Site Barge/Ship Loading Facility - Name of Facility

**Facility Interface Capability Assessment
Data Item Descriptions - Off-Site Data
(Cont.)**

<u>Date Item</u>	<u>Format</u>	<u>Description</u>
		Name or designation of the nearest off-site barge or ship loading facility to be accessed from the site. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.
SI-BG-ST	A18	<p>Off-Site Barge/Ship Loading Facility - Status</p> <p>Current status (OPERATIONAL, UNDER CONSTRUCTION or INACTIVE) of the nearest off-site barge or ship loading facility to be accessed from the site. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.</p>
SI-BG-FAC	A11	<p>Off-Site Barge/Ship Loading Facility - Type</p> <p>Type (BARGE and/or SHIP) of the nearest off-site barge or ship loading facility. BARGE is used to designate a facility used by shallow-draft vessels. SHIP is used to designate a facility used by deeper-draft vessels. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.</p>
SI-BG-WL	16	<p>Off-Site Barge/Ship Loading Facility - Limits - Weight (Lbs)</p> <p>Weight limitation (in pounds) for cask handling and transfer at the nearest off-site barge or ship loading facility to be accessed from the site. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.</p>
SI-BG-H	212	<p>Off-Site Barge/Ship Loading Facility - Limits - Height (Feet, Inches)</p> <p>Height limitation (in feet and inches) for cask handling and transfer at the nearest off-site barge or ship loading facility to be accessed from the site. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.</p>
SI-BG-DD	212	<p>Off-Site Barge/Ship Loading Facility - Limits - Depth/Draft (Feet, Inches)</p> <p>Water depth and barge draft limitation (in feet and inches) for the nearest off-site barge or ship loading facility to be accessed from the site. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.</p>
SI-BG-A-NM	A80	<p>Road Route to Off-Site Barge/Ship Loading Facility</p> <p>Names and/or route numbers for the off-site access road(s) which a loaded cask transport vehicle would use, from the site gate to the nearest barge or ship loading facility to be accessed. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.</p>
SI-WW-NM	A30	<p>Name of Waterway</p> <p>Name of the waterway on which the off-site barge/ship loading facility is located. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.</p>

**Facility Interface Capability Assessment
Data Item Descriptions - Off-Site Data
(Cont.)**

Data Item	Format	Description
SI-BG-A-DT	F7.2	Road Route to Off-Site Barge/Ship Loading Facility - Total Distance (Miles) Off-Site access road distance (in miles) from the site gate to the nearest off-site barge or ship loading facility to be accessed. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.
SI-BG-A-UC	F7.2	Road Route to Off-Site Barge/Ship Loading Facility - Distance Under Utility Control (Miles) Portion of the off-site access road total distance (in miles) from the site gate to the nearest off-site barge or ship loading facility to be accessed that is under utility control. Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.
SI-BG-A-WL	16	Road Route to Off-Site Barge/Ship Loading Facility - Vehicle Limits - Weight (Lbs) Total vehicle (tractor and trailer) weight limitation (in pounds) for the nearest barge or ship loading facility off-site access road(s). Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.
SI-BG-A-H	212	Road Route to Off-Site Barge/Ship Loading Facility - Vehicle Limits - Height (Feet, Inches) Total vehicle height limitation (in feet and inches) for the nearest barge or ship loading facility off-site access road(s). Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.
SI-BG-A-L	212	Road Route to Off-Site Barge/Ship Loading Facility - Vehicle Limits - Length (Feet, Inches) Total vehicle length limitation (in feet and inches) for the nearest barge or ship loading facility off-site access road(s). Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.
SI-BG-A-W	212	Road Route to Off-Site Barge/Ship Loading Facility - Vehicle Limits - Width (Feet, Inches) Total vehicle width limitation (in feet and inches) for the nearest barge or ship loading facility off-site access road(s). Omitted if a barge or ship loading facility is on-site or not on-site and more than 50 road miles away.
SI-BG-C	A254	Off-Site Barge/Ship Loading Facility Comment Comments (if applicable) related to the off-site barge/ship loading facility.
SI-AC-C	A254	General Off-Site Access Comment Comments (if applicable) related to off-site access.

**Facility Interface Capability Assessment
Data Item Descriptions - On-Site Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
AC-VH-WT	16	<p>On-Site Road Vehicle Limits - Weight (Lbs)</p> <p>Total vehicle (tractor and trailer) weight limitation (in pounds) for the on-site road, from the site boundary to the cask receiving area.</p>
AC-VH-WTPA	15	<p>On-Site Road Vehicle Limits - Weight Per Tandem Axle (Lbs)</p> <p>Vehicle (tractor and trailer) weight per tandem axle limitation (in pounds) for the on-site road, from the site boundary to the cask receiving area.</p>
AC-VH-L	13, 12	<p>On-Site Road Vehicle Limits - Length (Feet, Inches)</p> <p>Total vehicle length limitation (in feet and inches) for the on-site road from the site boundary to the cask receiving area. In the absence of other restrictions, this is the shortest straight segment of the road from the site boundary to the cask receiving area.</p>
AC-VH-W	212	<p>On-Site Road Vehicle Limits - Width (Feet, Inches)</p> <p>Total vehicle width limitation (in feet and inches) for the on-site road from the site boundary to the cask receiving area.</p>
AC-VH-H	212	<p>On-Site Road Vehicle Limits - Height (Feet, Inches)</p> <p>Total vehicle height limitation (in feet and inches) for the on-site road from the site boundary to the cask receiving area.</p>
AC-VH-C	A254	<p>On-Site Road Vehicle Limits Comment</p> <p>Comments (if applicable) on vehicle limitations for the on-site road, from the site boundary to the cask receiving area.</p>
AC-TR-Q	A1	<p>Transporter/Tractor - Available?</p> <p>Yes if a transporter or tractor is available to move the cask between the different areas and around the site, otherwise No. The transporter/tractor does not have to be on-site for the response to be yes, as long as the utility has access to one.</p>
AC-TR-TP	A40	<p>Transporter/Tractor - Type</p> <p>Type of transporter or tractor available to move the cask between the different areas and around the site.</p>
AC-TR-WL	16	<p>Transporter/Tractor - Weight (Lbs)</p> <p>Weight (in pounds) of the transporter or tractor itself.</p>

**Facility Interface Capability Assessment
Data Item Descriptions - On-Site Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
AC-TR-CP-W	I6	Transporter/Tractor - Capacity (Lbs) Maximum weight capacity (in pounds) of the transporter or tractor.
AC-TR-C	A254	Transporter/Tractor Comment Comments (if applicable) on transporter or tractor use and limitations on in-plant and on-site use.
SI-RR-NM	A30	On-Site Railhead/Rail Spur - Name Name, or designation, of the on-site railhead or rail spur. Omitted if a railhead or rail spur is not on-site.
SI-RR-ST	A18	On-Site Railhead/Rail Spur - Status Status (OPERATIONAL, UNDER CONSTRUCTION or INACTIVE) of the on-site railhead or rail spur. Omitted if a railhead or rail spur is not on-site.
SI-RR-WT	I6	On-Site Railhead/Rail Spur - Weight Limit (Lbs) Weight limitation (in pounds) of the on-site railhead or rail spur. Omitted if a railhead or rail spur is not on-site.
SI-RR-C1NM	A30	On-Site Railhead/Rail Spur - Carrier Name Name of the primary rail carrier using the on-site railhead or rail spur. Omitted if a railhead or rail spur is not on-site.
SI-RR-OWN	A30	On-Site Railhead/Rail Spur - Owner Owner of the on-site railhead or rail spur. (This name may be the same as, or different from, the carrier name.) Omitted if a railhead or rail spur is not on-site.
AC-RS-C-Q	A1	On-Site Railhead/Rail Spur - Extends into Cask-Receiving/Upending Area? Yes if the on-site rail spur extends into the cask receiving/upending area, otherwise No. Omitted if a railhead or rail spur is not on-site.
AC-RR-C-DS	I5	On-Site Railhead/Rail Spur - Distance to Cask Receiving/Upending Area (Feet) Distance (in feet) from the end of the rail spur to the cask receiving/upending area door if the rails end before reaching the receiving/upending area. Omitted if the on-site rail spur extends into the cask receiving/upending area or the railhead or rail spur is not on-site.
AC-RS-C-S	212	On-Site Railhead/Rail Spur - Cask Receiving/Upending Area Side Clearance Limit (Feet, Inches)

Facility Interface Capability Assessment
Data Item Descriptions - On-Site Data
(Cont.)

<u>Date Item</u>	<u>Format</u>	<u>Description</u>
		Minimum side clearance limit (in feet and inches) for the on-site rail spur from the rail car (measured from the rail car mid-plane) to the most restrictive object along the rail line from the site protected area gate into the receiving/upending area. Omitted if a railhead or rail spur is not on-site.
AC-RS-CP-Q	A1	On-Site Railhead/Rail Spur - Car Puller - Available? Yes if a rail car puller is available for moving rail cars on the rail spur, otherwise No. Omitted if a railhead or rail spur is not on-site. (The car puller does not have to be on-site for the response to be yes, as long as the utility has access to one.)
AC-RS-CP-T	A40	On-Site Railhead/Rail Spur - Car Puller - Type Type of rail car puller available. Omitted if a railhead or rail spur is not on-site.
AC-RS-CP	A30	On-Site Railhead/Rail Spur - Car Puller - Owner Name of the owner of the on-site rail car puller. Omitted if a railhead or rail spur is not on-site.
AC-RS-GRD	F4.2	On-Site Railhead/Rail Spur - Access Grade (Percent) Maximum grade (expressed in percent) of the on-site rail spur. Omitted if a railhead or rail spur is not on-site.

**Facility Interface Capability Assessment
Data Item Descriptions - On-Site Data
(Cont.)**

Data Item	Format	Description
AC-RS-CUR	I3	<p>On-Site Railhead/Rail Spur - Access Curves (Degrees)</p> <p>Maximum angle of curvature (in degrees) for the on-site rail spur, if available. The angle is measured based on a 100-foot chord across the curve in the on-site rail spur. Omitted if a railhead or rail spur is not on-site.</p>
SI-RR-C	A254	<p>On-Site Railhead/Rail Spur Comment</p> <p>Comments (if applicable) on the on-site railhead/rail spur.</p>
SI-BG-WH	A30	<p>On-Site Barge/Ship Loading Facility - Name of Facility</p> <p>Name, or designation, of the on-site barge or ship loading facility. Omitted if a barge or ship loading facility is not on-site.</p>
SI-BG-ST	A18	<p>On-Site Barge/Ship Loading Facility - Status</p> <p>Status (OPERATIONAL, UNDER CONSTRUCTION or INACTIVE) of the on-site barge or ship loading facility. Omitted if a barge or ship loading facility is not on-site.</p>
SI-BG-FAC	A11	<p>On-Site Barge/Ship Loading Facility - Type</p> <p>Type (BARGE and/or SHIP) of on-site barge or ship loading facility. BARGE is used to designate a facility used by shallow-draft vessels. SHIP is used to designate a facility used by deeper-draft vessels. Omitted if a barge or ship loading facility is not on-site.</p>
SI-WW-WH	A30	<p>On-Site Barge/Ship Loading Facility - Name of Waterway</p> <p>Name of the waterway on which the on-site barge or ship loading facility is located. Omitted if a barge or ship loading facility is not on-site.</p>
AC-BS-C-DS	I5	<p>On-Site Barge/Ship Loading Facility - Distance to Cask Receiving/Upending Area (Feet)</p> <p>Distance (in feet) from the on-site barge or ship loading facility to the cask receiving/upending area door. Omitted if a barge or ship loading facility is not on-site.</p>
SI-BG-WL	I6	<p>On-Site Barge/Ship Loading Facility - Limits - Weight (Lbs)</p> <p>Weight limitation (in pounds) for cask handling and transfer at the on-site barge or ship loading facility. Omitted if a barge or ship loading facility is not on-site.</p>
SI-BG-H	2I2	<p>On-Site Barge/Ship Loading Facility - Limits - Height (Feet, Inches)</p> <p>Height limitation (in feet and inches) for cask handling and transfer at the on-site barge or ship loading facility. Omitted if a barge or ship loading facility is not on-site.</p>

Facility Interface Capability Assessment
Data Item Descriptions - On-Site Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
SI-BG-DD	212	On-Site Barge/Ship Loading Facility - Limits - Depth/Draft (Feet, Inches) Water depth and barge draft limitation (in feet and inches) for the on-site barge or ship loading facility. Omitted if a barge or ship loading facility is not on-site.
AC-B-H	13, 12	On-Site Barge/Ship Loading Facility - On-Site Bridge Height Limit (Feet, Inches) Minimum bridge height (distance from bottom of bridge to average water level, in feet and inches) encountered on-site on approach to the on-site barge or ship loading facility. Omitted if the barge or ship loading facility is not on-site.
SI-B-H	13, 12	On-Site Barge/Ship Loading Facility - Off-Site Bridge Height Limit (Feet, Inches) Minimum bridge height (distance from bottom of bridge to average water level, in feet and inches) encountered off-site on approach to the on-site barge or ship loading facility. Omitted if the barge or ship loading facility is not on-site.
SI-BG-C	A254	On-Site Barge/Ship Loading Facility Comment Comments (if applicable) on the on-site barge/ship loading facility, including when the facility was last used.
AC-C	A254	General On-Site Access Comment Comments, if applicable, related to on-site access.

**Facility Interface Capability Assessment
Data Item Descriptions - General Reactor Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
RX-C-PREF	A40	<p>Preferred Shipping Cask(s)</p> <p>List of spent-fuel shipping casks which are preferred by the utility operating personnel for shipping spent fuel from this reactor.</p>
RX-C-DRY	A18	<p>Dry Cask Storage Capability</p> <p>Status (OPERATIONAL, UNDER CONSTRUCTION, PLANNED or NONE) of on-site dry cask storage capability (including concrete vault/bunker and dry storage).</p>
RX-C-LT	A80	<p>Type(s) and Number(s) of Long-Term Casks On Site</p> <p>Type(s) and number(s) of any spent-fuel shipping, transport, or storage/transport casks located on-site on a long-term semi-permanent basis. Comments on the number of transport casks and/or storage/transport casks are included, if applicable.</p>
RX-C-DRY-C	A254	<p>Dry Cask Storage Capability (Current and Planned) Comment</p> <p>Comments (if applicable) on the on-site capability for dry cask storage.</p>
RX-C-LT-C	A254	<p>On-Site Long-Term Casks Comment</p> <p>Comments, if applicable, on the long-term casks on-site.</p>
RX-ST-PL-Q	A1	<p>Other Storage Technologies Planned?</p> <p>Yes if other forms of storage are being planned, otherwise No.</p>
RX-ST-RR-Q	A1	<p>Rerack?</p> <p>Yes if reracking of the spent-fuel pool(s) is planned, otherwise No.</p>
RX-ST-RC-Q	A1	<p>Rod Consolidation?</p> <p>Yes if rod consolidation is planned, otherwise No.</p>
RX-ST-VB-Q	A1	<p>Concrete Vault/Bunker?</p> <p>Yes if construction of a concrete vault(s) or bunker(s) for spent-fuel storage is planned, otherwise No.</p>
RX-ST-DC-Q	A1	<p>Dry Storage Casks?</p> <p>Yes if there are plans to store spent fuel in dry storage casks, otherwise No.</p>
RX-ST-TS-Q	A1	<p>Transshipment?</p>

**Facility Interface Capability Assessment
Data Item Descriptions - General Reactor Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Yes if there are plans to ship fuel to another site belonging to the same utility, otherwise No.
RX-ST-PL-C	A254	Other Storage Technologies Planned Comment Comments (if applicable) on other forms of storage which are being planned, including the pros and cons of each. Other forms of storage should be considered planned if the utility has firm plans to proceed, issued a request for proposal, applied for a license, publicly announced its plans, etc. Omitted if there are no other forms of storage being planned.
RX-WR-C	A254	Weather Restriction to Cask Shipping Comment Comments (if applicable) on any known weather restrictions which could adversely affect on-site spent-fuel shipments. Such restrictions could include local or state truck laws prohibiting heavy load over-the-road transportation at certain times of the year, or an on-site restriction caused by the need to remove a roof hatch to gain access into the spent-fuel pool building.
RX-C	A254	General Reactor Comment Comments (if applicable) on reactor operations, such as factors which could impact spent-fuel shipments.

**Facility Interface Capability Assessment
Data Item Descriptions - Shipment Experience**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
SE-TSE-Q	A1	<p>Shipment Experience - Truck</p> <p>Yes if the reactor has had any experience with truck shipments of spent fuel, otherwise No.</p>
SE-RSE-Q	A1	<p>Shipment Experience - Rail</p> <p>Yes if the reactor has had any experience with rail shipments of spent fuel, otherwise No.</p>
SE-BSE-Q	A1	<p>Shipment Experience - Barge/Ship</p> <p>Yes if the reactor has had any experience with barge or ship shipments of spent fuel, otherwise No.</p>
SE-TSE-C	A254	<p>Truck Shipment (Experience, Number, Type and Date) Comment</p> <p>Experiences with truck shipments of spent fuel, including the types and quantities of shipments made and cask types used. Omitted if the site has no truck shipping experience.</p>
SE-RSE-C	A254	<p>Rail Shipment (Experience, Number, Type and Date) Comment</p> <p>Experiences with rail shipments of spent fuel, including the types and quantities of shipments made and cask types used. Omitted if the site has no rail shipping experience.</p>
SE-BSE-C	A254	<p>Barge/Ship Shipment (Experience, Number, Type and Date) Comment</p> <p>Experiences with barge/ship shipments of spent fuel, including the types and quantities of shipments made and cask type used. Omitted if the site has no barge or ship shipping experience.</p>
SE-CH-EX-Q	A1	<p>Cask Handling - Experience?</p> <p>Yes if the reactor has had any experience with spent-fuel cask handling, otherwise No.</p>
SE-CH-CT	A20	<p>Cask Handling - Cask Type Names</p> <p>Names of the types of spent-fuel shipping casks which have been handled. Omitted if the site has no cask handling experience.</p>
SE-CH-LS-D	D8	<p>Cask Handling - Last Operations Date</p> <p>Date (Month/Day/Year) on which the last spent-fuel shipment was made from the reactor.</p>
SE-CH-PR-Q	A1	<p>Cask Handling - Problems in Past?</p> <p>Yes if any problems have been encountered during past on-site handling of spent-fuel shipping casks, otherwise No.</p>

**Facility Interface Capability Assessment
Data Item Descriptions - Shipment Experience**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
SE-TAT-LTK	I3	<p>Average Cask Turnaround Time - Legal Weight Truck Cask (Days)</p> <p>Average on-site turnaround time (from entering the site gate to exiting the site gate, in days) for a legal weight truck cask.</p>
SE-TAT-OTK	I3	<p>Average Cask Turnaround Time - Overweight Truck Cask (Days)</p> <p>Average on-site turnaround time (from entering the site gate to exiting the site gate, in days) for an overweight truck cask.</p>
SE-TAT-RR	I3	<p>Average Cask Turnaround Time - Rail Cask (Days)</p> <p>Average on-site turnaround time (from entering the site gate to exiting the site gate, in days) for a rail cask.</p>
SE-TAT-BC	I3	<p>Average Cask Turnaround Time - Barge Cask (Days)</p> <p>Average on-site turnaround time (from entering the site gate to exiting the site gate, in days) for a barge cask.</p>
SE-CH-PR-C	A254	<p>Past Cask Handling Comment</p> <p>Comments (if applicable) on any problems encountered during past on-site handling of spent-fuel shipping casks.</p>

**Facility Interface Capability Assessment
Data Item Descriptions - Crane Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-CR-NM	A6	Crane Data - Designation Designation (POLAR or BRIDGE) for the main cask handling crane.
CH-CR-VMD	A30	Crane Data - Vendor Name of the crane vendor.
CH-CR-DC	I4	Crane Data - Design Capacity (Tons) Rated design load lift capacity (in tons) for the main cask handling crane. This capacity may be designated as the safe working load (SWL).
CH-CR-LC	I4	Crane Data - Operating Capacity (Tons) Present down-rated working (operating) capacity (in tons) of the main cask handling crane.
CH-CR-X-PC	I4	Crane Data - Auxiliary Crane Operating Capacity (Tons) Operating capacity (in tons) of the auxiliary crane. Omitted if there is no auxiliary crane.

**Facility Interface Capability Assessment
Data Item Descriptions - Crane Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-CR-LC-C	A254	Crane Capacity (Current and Planned) Comment Comments (if applicable) on the main and auxiliary crane capacities with respect to current requirements, and any plans for future changes in the capacities of either crane.
CH-CR-T	A13	Crane Type Type (REDUNDANT or NON-REDUNDANT) of the main cask handling crane.
CH-CR-HW-Q	A1	Allow Wetting of Crane Hook? Yes if the site procedures allow wetting of the main cask handling crane hook and block during the handling of casks in and out of the cask loading area or the spent-fuel pool, otherwise No.
CH-CR-T-C	A254	Crane Type Comment Restrictions and considerations on cask handling due to the redundancy/non-redundancy of the main cask handling crane and other considerations, including the need for special lifting equipment (other than normal yokes).
CH-CR-CF	13, 12	Crane Clearances - To Hook Palm in Uppermost Position - From Operating Floor (Feet, Inches) Minimum height (in feet and inches) from the main crane hook palm (bottom of interior surface) to the pool operating floor as the cask travels from the receiving/upending area to the spent-fuel pool (exclusive of the receiving/upending area and the spent-fuel pool), with the crane hook in its uppermost (or electrically tripped) position.
CH-CR-CR	13, 12	Crane Clearances - To Hook Palm in Uppermost Position - From Upending Area Floor (Feet, Inches) Minimum height (in feet and inches) from the main crane hook palm (bottom of interior surface) to the floor of the cask receiving or upending area, with the hook in its uppermost (or electrically tripped) position.
CH-CR-PO	212	Highest Permanent Obstruction in Cask/Crane Path - Height Above Operating Floor (Feet, Inches) Maximum height (in feet and inches) above the floor, of any permanent obstruction along the cask travel path, as the cask travels from the receiving/upending area to the spent-fuel pool.
CH-CRH-CN	A7	Crane Hook - Configuration Configuration (J or SISTER) of the main cask handling crane hook.
CH-CRH-PR	F7.2	Crane Hook - Palm Radius (Inches) Palm radius (in inches) of the main cask handling crane hook.
CH-CR-HW	F7.2	Crane Hook - Maximum Width (Inches)

**Facility Interface Capability Assessment
Data Item Descriptions - Crane Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Maximum width of the crane hook (in inches) measured at the widest point from outside surface of hook point to outside surface of hook point for sister hooks, or at the widest point of the hook shank for J hooks.
CH-CR-HT	F7.2	Crane Hook - Maximum Thickness (Inches) Thickness of the crane hook (in inches) measured at its thickest plane from outside surface to outside surface.
CH-CRH-BH	F7.2	Crane Hook - Distance from Center of Palm Radius to Bottom of Hook (Inches) Vertical distance between horizontal plane through center of curvature of hook palm surface and plane through lowest point of hook.
CH-CRH-PRC	F7.2	Crane Hook - Distance Between Centers of Sister Hook Palm Radii (Inches) Distance (in inches) between the centers of the main cask handling crane hook palm radii, for a sister hook configuration only.
CH-CRH-PHD	F7.2	Crane Hook - Crane Hook/Pendant Pin Hole Diameter (Inches) Diameter (in inches) of the main cask handling crane pin hole in the hook or the pendant.
CH-CRH-SH	F7.2	Crane Hook - Distance from Crane Hook Palm to Bottom of Block (Inches) Distance (in inches) from the main crane hook palm (bottom of interior surface) to the bottom surface of the block.
CH-CRH-PHC	F5.2	Crane Hook - Vertical Distance from Center of Palm Radius to Center of Pin Hole (Inches) Vertical distance from a horizontal plane through the center of curvature of the palm surface to a horizontal plane through the center of the redundant system pin hole.
CH-CR-PO-C	A254	Crane Clearances and Hook Comment Comments (if applicable) on any operational limitations or limiting clearances related to the main cask handling crane and hook.
CH-CDA-D	D8	Date of Most Recent Cask Drop Analysis Date (Month/Day/Year) when the last cask drop analysis was performed.
CH-CDA-C1 and	A254 plus	Cask Drop Analysis Comment Comments (if applicable) on the cask type used for the drop analysis and the weight limit (in pounds) on which the analysis was

Facility Interface Capability Assessment
Data Item Descriptions - Crane Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-CDA-C2	A254	based.
CH-CR-FP-Q	A1	Single Failure Proof per NUREG 0612? Yes if the main cask handling crane has been approved by the NRC as single failure proof per the requirements of NUREG 0612 and 0554, otherwise No.
CH-612-C	A254	NUREG 0612 Limits on Cask Handling Comment Comments (if applicable) on any limitations on cask handling operations which have been imposed by the incorporation of NUREG 0612 requirements.
CH-CK-OS-Q	A1	Cask Travel over Safety-Related Equipment Required? Yes if cask travel from the receiving/upending area to the cask set-down (loading) area is over any safety-related equipment, otherwise No.
CH-CK-OS-C	A254	Cask Travel Over Safety-Related Equipment Comment Comments (if applicable) on any safety-related equipment beneath the cask travel path from the receiving/upending area to the cask set-down (loading) area.
CH-CR-TR-C	A254	Crane Travel Limitations Comment Comments (if applicable) on any limitations on the main cask handling crane travel, including whether they are procedurally or electrically/mechanically controlled.
CH-CR-C	A254	General Crane Comment Comments (if applicable) on any crane characteristics, restrictions or problems not previously covered, which could adversely affect spent-fuel handling and shipping operations.

**Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
FP-NM	A42	Name On-Site name or designation for the spent-fuel pool.
FP-FT	A7	Fuel Type Type of unconsolidated fuel assemblies (BWR and/or PWR) stored, or to be stored, in the spent-fuel pool.
FP-ST	A18	Status Status (OPERATIONAL, UNDER CONSTRUCTION, PLANNED or NONE) of the spent-fuel pool.
FP-CN	A11	Configuration Configuration of the spent-fuel pool (L-shaped, rectangular, etc.).
FP-EQ-Q	A1	Spent-Fuel Pool Earthquake, Hurricane or Tornado Protection Shipping Requirements? Yes if there are any earthquake, hurricane or tornado protection requirements for the spent-fuel pool or in the fuel building associated with spent-fuel shipping, otherwise No.
FP-EQ-C	A254	Spent-Fuel Pool Earthquake, Hurricane or Tornado Protection on Shipping Requirements Comment Comments (if applicable) on any earthquake, hurricane or tornado protection requirements for the spent-fuel pool which could affect cask-handling operations.
FP-L	I3, I2	Pool Dimensions - Length (Feet, Inches) Length, i.e., the longer horizontal dimension (in feet and inches), of the spent-fuel pool. If the pool is not a rectangle, these dimensions reflect the length and width of a rectangle that encompasses the pool and the Spent-Fuel Pool Dimensions Comment contains comments on the actual shape and size of the pool.
FP-W	I3, I2	Pool Dimensions - Width (Feet, Inches) Width, i.e., the shorter horizontal dimension (in feet and inches), of the spent-fuel pool. If the pool is not a rectangle, these dimensions reflect the length and width of a rectangle that encompasses the pool and the Spent-Fuel Pool Dimensions Comment contains comments on the actual shape and size of the pool.
FP-DE	2I2	Pool Dimensions - Depth (Feet, Inches) Depth (in feet and inches) of the spent-fuel pool from the top of the curb edge to the lowest part of the pool floor. If the pool floor is not even, except for the impact absorber shelf in the cask set-down (loading) area, the Spent-Fuel Pool Dimensions Comment contains comments on the unevenness.
FP-W-DE	2I2	Pool Dimensions - Water Depth (Feet, Inches)

**Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Normal operating depth (in feet and inches) of the spent-fuel pool water measured to the lowest part of the pool floor.
FP-SFL	F9.3	Pool Dimensions - Maximum Static Floor Loading (Lbs/Sq Ft) Static load limit (in pounds per square foot) of the spent-fuel pool floor.
FP-DIMEN-C	A254	Spent-Fuel Pool Dimensions Comment Comments (if applicable) on the spent-fuel pool configuration, dimensions, depth, water depth, etc.
FP-TN-C	A254	Spent-Fuel Pool Technology Comment Comments (if applicable) on the types of spent-fuel storage racks (standard, high-density, poison, etc.) in the spent-fuel pool, including the results of any reracking and/or rack configuration evaluations made.
FP-ASBL-W	F6.3	Storage Cell Data - Width of Fuel Assembly (Inches) Maximum width (in inches) of fuel assembly.
FP-CTOCSP1	F6.3	Storage Cell Data - Center-to-Center Spacing for Fuel Assembly Storage Cells - Region 1 (Inches) Distance (in inches) from the center of a fuel assembly storage cell to the center of the next adjacent assembly storage cell (referred to as the pitch). This parameter is for region 1 of a two-region pool, or for a single region pool.
FP-CTOCSP2	F6.3	Storage Cell Data - Center-to-Center Spacing for Fuel Assembly Storage Cells - Region 2 (Inches) Distance (in inches) from the center of a fuel assembly storage cell to the center of the next adjacent assembly storage cell (referred to as the pitch) in region 2 of a two-region pool. Omitted if the pool is a single-region pool.
FP-XSECTD1	F6.3	Storage Cell Data - Fuel Assembly Storage Cell Cross-Section Side Dimension - Region 1 (Inches) Distance (in inches) between the inside walls of a fuel assembly storage cell (cross-sectional dimension). This parameter is for region 1 of a two-region pool, or for a single region pool.
FP-XSECTD2	F6.3	Storage Cell Data - Fuel Assembly Storage Cell Cross-Section Side Dimension - Region 2 (Inches) Distance (in inches) between the inside walls of a fuel assembly storage cell (cross-sectional dimension) in region 2 of a two-region pool. Omitted if the pool is a single-region pool.
FP-FA	I7	Pool Limits - Number of Unconsolidated Fuel Assemblies

**Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Number of usable unconsolidated fuel assemblies for which storage is currently provided in the spent-fuel pool. This number is only the rack spaces which can hold unconsolidated assemblies, and should not include any rack spaces that are unusable due to interferences or obstructions.
FP-CC	17	Pool Limits - Number of Consolidated Fuel Canisters Number of storage cells in the spent-fuel pool currently licensed for consolidated fuel storage.
FP-235	F3.1	Pool Limits - Pool Weight Percent U ²³⁵ Licensed weight percent limit of U ²³⁵ currently allowed in fuel rods stored in the spent-fuel pool.
FP-BU-MAX	16	Pool Limits - Burnup (MWD/MTU) - Maximum (Region 1) Current maximum burnup limit in megawatt days per metric ton of uranium (MWD/MTU) for fuel assemblies which are to be stored in the pool. This limit applies to either a single-region or a two-region pool.
FP-BU-MIN	16	Pool Limits - Burnup (MWD/MTU) - Minimum (Region 2) For a two-region spent-fuel pool only, minimum burnup limit (in MWD/MTU) which currently divides the high and low burnup regions. This is the burnup value of a fuel assembly at which its location in the high burnup region is disallowed.
FP-INV	17	Pool Inventory Data - Pool Inventory Number of spent-fuel storage cells currently occupied by fuel assemblies, consolidated fuel canisters, etc.
FP-ASBPREL	13	Pool Inventory Data - Number of Assemblies Planned per Reload Average number of fuel assemblies currently planned for discharge per reload in the future based on the utility's existing fuel cycle plan.
FP-AVG-CYC	12	Pool Inventory Data - Planned Cycle Length (Months) Average cycle length (in months) based on the utility's existing fuel cycle plan. This number includes both the number of months operating and the number of months for refueling.
FP-FCRLOSS	D8	Pool Inventory Data - Loss of FCR Date Date (Month/Day/Year) of the projected loss of full-core reserve (FCR) discharge capability based on the utility's existing fuel cycle plan and existing spent-fuel storage capacity.
FP-INV-C	A254	Spent-Fuel Pool Limits/Inventory Comment

**Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Comments (if applicable) on the composition of the current pool inventory (i.e., fuel assemblies vs. consolidated fuel canisters, etc.) and the storage limits of the spent-fuel pool.
FP-E-Q	A1	Plans for Expansion of Spent-Fuel Pool Capacity? Yes if expansion of the spent-fuel pool capacity is being planned, otherwise No.
FP-E-C	A254	Plans for Future Expansion of Spent-Fuel Pool Comment Comments (if applicable) on any plans for the future expansion of the spent-fuel pool, including an anticipated schedule for the work to be undertaken. Omitted if there are no plans for expansion of the spent-fuel pool.
FP-E-FA	17	Pool Limits After Expansion - Number of Unconsolidated Fuel Assemblies Number of unconsolidated assemblies that can be stored in the spent-fuel pool after expansion of the spent-fuel storage capacity.
FP-E-CC	17	Pool Limits After Expansion - Number of Consolidated Fuel Canisters Number of consolidated fuel canisters that can be stored in the spent-fuel pool after expansion of the spent-fuel storage capacity.
FP-E-235	F3.1	Pool Limits After Expansion - Weight Percent U ²³⁵ Licensed weight percent limit of U ²³⁵ allowed in fuel rods stored in the spent-fuel pool after expansion of the spent-fuel storage capacity.
FP-E-BU-MX	16	Pool Limits After Expansion - Burnup (MWD/MTU) - Maximum (Region 1) Current maximum burnup limit (in MWD/MTU) in a single-region spent-fuel pool, or in region 2 for a two-region pool, for fuel assemblies which are to be stored in the pool. This limit applies to either a single-region or a two-region pool.
FP-E-BU-MN	16	Pool Limits After Expansion - Burnup (MWD/MTU) - Minimum (Region 2) For a two-region spent-fuel pool only, minimum burnup limit (in MWD/MTU) which divides the high and low burnup regions. This is the burnup value of a fuel assembly at which its location in the high burnup region is disallowed.
FP-NEWFCRL	D8	New Loss of FCR Date Date (Month/Day/Year) of the projected loss of FCR discharge capability, after expansion of the spent-fuel pool, based on the utility's existing fuel cycle plan.

**Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
FP-BU-C	A254	Burnup/Burnup Credit Comment Comments (if applicable) on the burnup limits for the pool, including any comments on burnup credit.
FP-F-F	I4	Failed/Leaking/Suspect Fuel - Number of Assemblies or Consolidated Canisters - Failed Number of assemblies or consolidated canisters of failed fuel which are currently stored in the spent-fuel pool. Failed assemblies are ones that are confirmed by visual inspection.
FP-F-L	I4	Failed/Leaking/Suspect Fuel - Number of Assemblies or Consolidated Canisters - Leaking Number of assemblies or consolidated canisters of leaking fuel which are currently stored in the spent-fuel pool. Leaking assemblies are ones that have been determined to have a breach in the cladding through ultrasonic testing or fuel sipping.
FP-F-SL	I4	Failed/Leaking/Suspect Fuel - Number of Assemblies or Consolidated Canisters - Suspect Limits - Lower Number of suspect assemblies which are currently either in the reactor core or stored in the spent-fuel pool. Suspect assemblies are ones suspected of having a breach in the cladding through in-core radiochemistry analysis or other means, but have not been leak tested by ultrasonic testing or fuel sipping.
FP-F-SU	I4	Failed/Leaking/Suspect Fuel - Number of Assemblies or Consolidated Canisters - Suspect Limits - Upper Number of suspect assemblies which are currently either in the reactor core or stored in the spent-fuel pool. Suspect assemblies are ones suspected of having a breach in the cladding through in-core radiochemistry analysis or other means, but have not been leak tested.
FP-F-C	A254	Failed/Leaking/Suspect Fuel Comment Comments (if applicable) on the number of failed, leaking, or suspect assemblies.
FP-RC-HS-Q	A1	Spent-Fuel Rod Consolidation Experience - Historical? Yes if any previous on-site spent-fuel rod consolidation programs have been undertaken, otherwise No.
FP-RC-HS-N	I6	Spent-Fuel Rod Consolidation Experience - Number of Existing Fuel Canisters Number of canisters of previously consolidated spent-fuel assemblies, including only fuel currently stored in the spent-fuel pool. Omitted if no previous consolidation has been undertaken.
FP-HS-NFBC	I6	Spent-Fuel Rod Consolidation Experience - Number of Existing NFBC Canisters Number of canisters of previously consolidated spent-fuel assemblies, including only the skeleton frames (hardware) currently stored in the spent-fuel pool. Omitted if no previous consolidation has been undertaken.

**Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
FP-RC-PL-Q	A1	Spent-Fuel Rod Consolidation Plans - Planned? Yes if any on-site plans are being formulated for the future consolidation of spent-fuel assemblies, otherwise No.
FP-RC-PL-N	I6	Spent-Fuel Rod Consolidation Plans - Number of Planned Fuel Canisters Number of consolidation canisters containing fuel rods expected to be generated in the future based on existing rod consolidation plans. Omitted if there are no plans for spent-fuel rod consolidation.
FP-PL-NFBC	I6	Spent-Fuel Rod Consolidation Plans - Number of Planned NFBC Canisters Planned number of canisters of consolidated spent-fuel assemblies, including only the skeleton frames (hardware), to be generated in the future based on existing rod consolidation plans. Omitted if there are no plans for spent-fuel rod consolidation.
FP-RE-LOC	A30	Rod Consolidation Equipment On-Site - Location Location of any spent-fuel rod consolidation equipment currently stored on-site.
FP-RE-OWN	A30	Rod Consolidation Equipment On-Site - Owner Name of the owner of any spent-fuel rod consolidation equipment currently stored on-site.
FP-RE-VND	A30	Rod Consolidation Equipment On-Site - Vendor Name of the vendor of any spent-fuel rod consolidation equipment currently stored on-site.
FP-RC-C	A254	Rod Consolidation Comment Comments (if applicable) on the technology of any rod consolidation equipment (that is, crusher, shredder, etc.), assessed results and operational evaluation.
FP-RH-Q	A1	Spent-Fuel Pool Modifications Planned to Overcome Rod Consolidation Problems? Yes if there are any plans for modifications of the spent-fuel pool due to the known or anticipated problems associated with spent-fuel rod consolidation, otherwise No.
FP-RH-C	A254	Spent-Fuel Pool Modifications Planned to Overcome Rod Consolidation Problems Comment Comments (if applicable) on any plans for modifications to the spent-fuel pool due to known or anticipated problems associated with spent-fuel rod consolidation. Omitted if there are no planned spent-fuel pool modifications due to rod consolidation problems.
FP-CC-L	212	Consolidated Fuel Canisters Limits - Length (Feet, Inches)

**Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Maximum overall length (in feet and inches) of any consolidated fuel canisters which are currently stored in the spent-fuel pool. If different size canisters are in the pool, this dimension reflects the length of the longest canister.
FP-CC-W	F6.3	<p>Consolidated Fuel Canister Limits - Cross-Sectional Dimension (Inches)</p> <p>Length (in inches) of a cross-sectional dimension of the consolidated fuel canisters currently stored in the pool. If different size canisters are in the pool, this dimension reflects the largest cross-sectional dimension.</p>
FP-CC-D	212	<p>Consolidated Fuel Canister Limits - Minimum Water Depth (Feet, Inches)</p> <p>Minimum depth (in feet and inches) of any consolidated fuel canisters (measured to the top of the canister from the normal operating pool water level) which are currently stored in the spent-fuel pool.</p>
FP-CC-GRC	212	<p>Consolidated Fuel Canister Limits - Clearance in Length Needed by Grapple (Feet, Inches)</p> <p>Maximum vertical height of lift (in feet and inches) required to clear empty fuel racks and other obstructions when moving a consolidated fuel canister into a shipping/transfer cask.</p>
FP-CC-TW	15	<p>Consolidated Fuel Canister Limits - Maximum Theoretical Total Weight in Air (Lbs)</p> <p>Maximum total weight (in pounds) of a consolidated fuel canister loaded with the theoretical limit of rods.</p>
FP-CC-C	A254	<p>Consolidated Fuel Canister Limits Comment</p> <p>Comments, if applicable, on any dimensional limitations that would affect the handling of consolidated fuel canisters.</p>
FP-IC-Q	A1	<p>Spent-Fuel Pool Connected with Another Storage Pool?</p> <p>Yes if the spent-fuel pool is connected with another storage pool(s), otherwise No.</p>
FP-IC-ID1	A12	<p>Connected Spent-Fuel Pool Number One</p> <p>A unique database reactor name identification code to designate the first spent-fuel pool interconnected with this spent-fuel pool. Omitted if there is only one pool.</p>
FP-IC-ID2	A12	<p>Connected Spent-Fuel Pool Number Two</p> <p>A unique database reactor name identification code to designate the second spent-fuel pool interconnected with this spent-fuel pool. Omitted if only two spent-fuel pools are interconnected at this reactor.</p>
FP-IC-ID3	A12	<p>Connected Spent-Fuel Pool Number Three</p>

Facility Interface Capability Assessment
Data Item Descriptions - Spent-Fuel Pool Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		A unique database reactor name identification code to designate the third spent-fuel pool interconnected with this spent-fuel pool. Omitted if only three spent-fuel pools are interconnected at this reactor.
FP-SH-Q	A1	Spent-Fuel Pool Shared by More than One Reactor? Yes if the spent-fuel pool is used by more than one reactor, otherwise No.
FP-SH-RX1	A12	Sharing Reactor Number One A unique database reactor name identification code to designate the first reactor that uses this spent-fuel pool. Omitted if no other reactors share this pool.
FP-SH-RX2	A12	Sharing Reactor Number Two A unique database reactor name identification code to designate the second reactor that uses this spent-fuel pool. Omitted if only two reactors share this pool.
FP-SH-RX3	A12	Sharing Reactor Number Three A unique database reactor name identification code to designate the third reactor that uses this spent-fuel pool. Omitted if only three reactors share this pool.
FP-C1 and FP-C2	A254 plus A254	General Spent-Fuel Pool Comment Comments, if applicable, on the spent-fuel pool if not previously covered.

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-RA-A-CN	A11	<p>Cask Receiving Area Access Limits - Configuration</p> <p>Configuration (CIRCULAR, RECTANGULAR or OPEN) of the limiting access to the cask receiving area as the cask travels into the receiving area.</p>
CH-RA-A-D	212	<p>Cask Receiving Area Access Limits - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular) (in feet and inches) of the access to the cask receiving area as the cask travels into the cask receiving area. Width is the smaller of the two rectangular dimensions.</p>
CH-RA-A-H	212	<p>Cask Receiving Area Access Limits - Height/Length (Feet, Inches)</p> <p>Minimum height (rectangular) or length (circular) (in feet and inches) of the access to the cask receiving area as the cask travels into the cask receiving area. Length is the larger of the two rectangular dimensions.</p>
CH-RA-E-Q	A1	<p>Is the Cask Receiving Area Enclosed?</p> <p>Yes if the cask receiving area is enclosed, otherwise No.</p>
CH-RA-AL-Q	A1	<p>Is the Cask Receiving Area an Air Lock?</p> <p>Yes if the cask receiving area contains an air lock, otherwise No.</p>
CH-RA-OL-Q	A1	<p>Is There an Air Lock Other Than the Receiving Area?</p> <p>Yes if there is an air lock other than one in the receiving area, otherwise No.</p>
CH-RA-CN	A11	<p>Cask Receiving Area - Configuration</p> <p>Configuration (CIRCULAR, RECTANGULAR or OPEN) of the cask receiving area. This is the interface area between the cask transport vehicle and the reactor building.</p>
CH-RA-SFL	19	<p>Cask Receiving Area - Uniform Static Floor Load (Lbs/Sq Ft)</p> <p>Maximum allowable uniform static load (in pounds per square foot) on the receiving area floor.</p>
CH-RA-ILL	F9.3	<p>Cask Receiving Area - Maximum Dynamic Load (Lbs/Sq Ft)</p> <p>Maximum allowable dynamic load (in pounds per square foot) on the receiving area floor.</p>
CH-RA-H	212	<p>Cask Receiving Area - Height (Feet, Inches)</p> <p>Minimum height (in feet and inches) of the receiving area. This dimension is measured from the receiving area floor to the ceiling of the receiving area corridor, or to the ceiling of the fuel handling building if no receiving area corridor exists. If the receiving area is outside (i.e., not in a building), this dimension is</p>

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		measured from the ground to the palm of the gantry crane hook in its uppermost position.
CH-RA-L	212	<p>Cask Receiving Area - Length (Feet, Inches)</p> <p>Minimum length (in feet and inches) of the receiving area. This dimension reflects only the length of the receiving area, excluding the length of an air lock, if applicable. Allowance should be made, if applicable, for limiting lengths related to plant operating procedures requiring that doors into and/or within the receiving area be open or closed during cask handling operations. If the receiving area is outside, this dimension is the width of the gantry crane rails. (If the dimension is 100 feet or more, 99 feet, 11 inches is used.)</p>
CH-RA-W	212	<p>Cask Receiving Area - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular) (in feet and inches) of the receiving area. If the receiving area is outside, this dimension is the length of the gantry crane structure.</p>
CH-RA-C1 and CH-RA-C2	A254 plus A254	<p>Cask Receiving Area Comment</p> <p>Comments (if applicable) on the configuration, dimensions, etc., of the receiving area and any limitations on accommodating a cask transport vehicle. This comment field includes any comments on the dimensions of the air lock contained in the receiving area and on the dimensions of the hoist well or hatchway to the pool operating floor.</p>
CH-UA-Q	A1	<p>Does a Separate Cask Upending Area Exist?</p> <p>Yes if a separate cask upending area exists, otherwise No. The response is Yes only if a separate upending area exists because the cask cannot be or is not upended in the receiving area.</p>
CH-UA-A-CN	A11	<p>Cask Upending Area Access - Configuration</p> <p>Configuration (CIRCULAR, RECTANGULAR or OPEN) of the limiting access to the cask upending area as the cask travels from the receiving area into the upending area. Omitted if no separate upending area exists.</p>
CH-UA-A-D	212	<p>Cask Upending Area Access - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular) (in feet and inches) of the access to the cask upending area as the cask travels from the cask receiving area into the upending area. Omitted if no separate upending area exists or upending access is open. Width is the smaller of the two rectangular dimensions.</p>
CH-UA-A-H	212	<p>Cask Upending Area Access - Height/Length (Feet, Inches)</p> <p>Minimum height (rectangular) or length (circular) (in feet and inches) of the access to the cask upending area as the cask travels from the cask receiving area into the upending area. Omitted if no separate upending area exists or upending access is open.</p>

Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-UA-CN	A11	<p>Cask Upending Area - Configuration</p> <p>Configuration (CIRCULAR, RECTANGULAR or OPEN) of the cask upending area. Omitted if no separate upending area exists.</p>
CH-UA-SFL	19	<p>Cask Upending Area - Uniform Static Floor Loading (Lbs/Sq Ft)</p> <p>Maximum allowable uniform static load (in pounds per square foot) on the cask upending area floor. Omitted if no separate upending area exists.</p>
CH-UA-ILL	F9.3	<p>Cask Upending Area - Maximum Dynamic Load (Lbs/Sq Ft)</p> <p>Maximum allowable dynamic load (in pounds per square foot) on the cask upending area floor. Omitted if no separate upending area exists.</p>
CH-UA-H	212	<p>Cask Upending Area - Height (Feet, Inches)</p> <p>Minimum height (in feet and inches) of the cask upending area. This dimension should reflect any overhead obstructions which restrict the preparation for removal of protective barriers, etc., or the actual upending operation. Omitted if no separate upending area exists or upending area is open.</p>
CH-UA-L	212	<p>Cask Upending Area - Length (Feet, Inches)</p> <p>Minimum length (in feet and inches) of the cask upending area. This dimension should reflect any length obstructions (for example, opening of the access doors) which restrict vehicle/cask length. Omitted if no separate upending area exists or upending area is circular or open.</p>
CH-UA-W	212	<p>Cask Upending Area - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular) (in feet and inches) of the cask upending area. This dimension may be defined by the limits of the overhead hatchway or a set trailer parking zone, and should reflect any side obstructions which restrict vehicle/cask width. Omitted if no separate upending area exists or upending area is open. Width is the smaller of the two rectangular dimensions.</p>
CH-UA-H-Q	A1	<p>Does the Cask Upending Area Have a Top Hatch?</p> <p>Yes if the cask upending area has a hatch (or other restrictive opening) through which the cask is transferred from the cask upending area toward the spent-fuel pool, otherwise No. Omitted if no separate upending area exists.</p>
CH-UA-H-CN	A11	<p>Cask Upending Area Top Hatch - Configuration</p> <p>Configuration (CIRCULAR, RECTANGULAR or SQUARE) of the hatch(es) or other restrictive opening(s) through which the cask is transferred from the cask upending area toward the spent-fuel pool. Omitted if no top hatch(es)</p>

Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		exists.
CH-UA-H-D	212	<p>Cask Upending Area Top Hatch - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular or square) (in feet and inches) of the top hatch(es) or other restrictive opening(s) through which the cask is transferred from the cask upending area toward the spent-fuel pool. This dimension may be somewhat limited by the controlled movement of the crane and its hook. Omitted if no top hatch(es) exists. Width is the smaller of the two rectangular dimensions.</p>
CH-UA-H-L	212	<p>Cask Upending Area Top Hatch - Length (Feet, Inches)</p> <p>Minimum length (in feet and inches) for a rectangular top hatch or other restrictive opening through which the cask is transferred from the cask upending area toward the spent-fuel pool. This dimension may be somewhat limited by the controlled movement of the crane and its hook. Omitted if no top hatch exists. Length is the larger of the two rectangular dimensions.</p>
CH-UA-C	A254	<p>Cask Upending Area Comment</p> <p>Comments (if applicable) on the dimensions, configuration, etc., of the cask upending area.</p>
CH-DA-Q	A1	<p>Does a Separate Cask Decontamination Area Exist?</p> <p>Yes if a separate cask decontamination area exists, otherwise No.</p>
CH-DA-A-CN	A11	<p>Cask Decontamination Area Access - Configuration</p> <p>Configuration (CIRCULAR, RECTANGULAR OR OPEN) of the access to the cask decontamination area as the cask travels from the receiving or upending area into the decontamination area. Omitted if no separate cask decontamination area exists.</p>
CH-DA-A-D	212	<p>Cask Decontamination Area Access - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular) (in feet and inches) of the access to the cask decontamination area as the cask travels from the receiving area into the decontamination area. Omitted if no separate decontamination area exists. Width is the smaller of the two rectangular dimensions.</p>
CH-DA-A-H	212	<p>Cask Decontamination Area Access - Height/Length (Feet, Inches)</p> <p>Minimum height (rectangular) or length (circular) (in feet and inches) of the access to the cask decontamination area as the cask travels from the receiving area into the decontamination area. If this dimension is a height, it is measured from the crane hook palm (at the hook's highest elevation) to the top of any obstruction on the access path to the decontamination area, such as the curb around the decontamination area. Omitted if no separate decontamination area exists.</p>

Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-DA-EN-Q	A1	Cask Decontamination Area - Enclosed? Yes if the decontamination area is enclosed (i.e., enclosed on three or more sides), otherwise No.
CH-DA-CN	A11	Cask Decontamination Area - Configuration Configuration (CIRCULAR, RECTANGULAR OR SQUARE) of the cask decontamination area. Omitted if no separate decontamination area exists.
CH-DA-SL	F9.2	Cask Decontamination Area - Uniform Static Floor Loading (Lbs/Sq Ft) Maximum allowable uniform static load (in pounds per square foot) on the cask decontamination area floor. Omitted if no separate decontamination area exists.
CH-DA-ILL	F9.3	Cask Decontamination Area - Maximum Dynamic Load (Lbs/Sq Ft) Maximum allowable dynamic load (in pounds per square foot) on the cask decontamination area floor. Omitted if no separate decontamination area exists.
CH-DA-H	212	Cask Decontamination Area - Height (Feet, Inches) Minimum height (in feet and inches) of the cask decontamination area. This dimension is measured from the crane hook palm (at the hook's highest elevation) to the floor of the decontamination area. Omitted if no separate cask decontamination area exists. If the dimension is 100 feet or more, 99 feet, 11 inches is used.
CH-DA-L	212	Cask Decontamination Area - Length (Feet, Inches) Minimum length (in feet and inches) of the cask decontamination area. Omitted if no separate cask decontamination area exists. If this dimension is 100 feet or more, 99 feet, 11 inches is used. Length is the larger of the two rectangular dimensions.
CH-DA-W	212	Cask Decontamination Area - Diameter/Width (Feet, Inches) Minimum diameter (circular) or width (rectangular or square) (in feet and inches) of the cask decontamination area. Omitted if no separate cask decontamination area exists. If this dimension is 100 feet or more, 99 feet, 11 inches is used. Width is the smaller of the two rectangular dimensions.
CH-DA-TYPE	A100	Cask Decontamination Area - Type of Decontamination Available Type(s) of decontamination procedures available (that is, hydrolazing, spray rings, manual, etc.).
CH-DA-C1 and CH-DA-C2	A254 plus A254	Cask Decontamination Area Comment Comments (if applicable) on the configuration, dimensions, etc., of the cask decontamination area.

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-SD-A-CN	A11	<p>Cask Set-Down Area Access - Configuration</p> <p>Configuration (CIRCULAR, RECTANGULAR or OPEN) of the access to the cask set-down area as the cask travels from the decontamination area to the intermediate set-down level or the set-down (loading) area. The access includes the structural envelope through which the cask must travel from the immediately preceding area (receiving, upending, or decontamination area depending on the particular unit) to the spent-fuel pool (intermediate set-down level or set-down (loading) depending on the particular unit). The configuration should be that which represents the most restrictive dimensions of the access. CIRCULAR is used if the cask travels horizontally.</p>
CH-SD-A-L	212	<p>Cask Set-Down Area Access - Plan View - Length (Feet, Inches)</p> <p>Minimum length (circular) (in feet and inches) of the access (in the plan view) as the cask travels from the decontamination area into the intermediate set-down level or the set-down (loading) area. Omitted if the elevation view dimensions are given for the cask set-down area access.</p>
CH-SD-A-D	212	<p>Cask Set-Down Area Access - Plan View - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular) (in feet and inches) of the access to the spent-fuel pool (in the plan view) as the cask travels from the decontamination area into the intermediate set-down level or the set-down (loading) area. Omitted if the elevation view dimensions are given for the cask set-down area access.</p>
CH-SD-E-H	212	<p>Cask Set-Down Area Access - Elevation View - Height (Feet, Inches)</p> <p>Minimum height (in feet and inches) of the access to the spent-fuel pool (in the elevation view) as the cask travels from the decontamination area to the intermediate set-down level or the set-down (loading) area. In the absence of other restrictions, this dimension reflects the clearance based on the maximum height of the crane hook measured to the hook palm. Omitted if the plan view dimensions are given for the cask set-down area access.</p>
CH-SD-E-D	212	<p>Cask Set-Down Area Access - Elevation View - Diameter/Width (Feet, Inches)</p> <p>Minimum diameter (circular) or width (rectangular) (in feet and inches) of the access to the spent-fuel pool (in the elevation view) as the cask travels from the decontamination area to the intermediate set-down level or the set-down (loading) area. Omitted if the plan view dimensions are given for the cask set-down area access.</p>
CH-SD-A-C	A254	<p>Cask Set-Down Area Access Comment</p> <p>Comments (if applicable) related to the configuration, dimensions, etc., of the cask set-down area access.</p>
CH-SL-Q	A1	<p>Does a Separate Cask Intermediate Set-Down Level Exist?</p>

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Yes if a separate cask intermediate set-down level used for temporary cask support exists, otherwise No.
CH-SL-S-H	212	Cask Intermediate Set-Down Level - Height Above Cask Set-Down (Loading) Area Floor (Feet, Inches) Height (in feet and inches) of the cask intermediate set-down level above the cask set-down (loading) area floor. Omitted if no separate cask intermediate set-down level exists.
CH-SL-SDE	212	Cask Intermediate Set-Down Level - Nominal Depth Below Water Line (Feet, Inches) Nominal depth (in feet and inches) of the cask intermediate set-down level below the spent-fuel pool normal water level. Omitted if no separate cask intermediate set-down level exists.
CH-SL-CN	A11	Cask Intermediate Set-Down Level - Configuration Configuration (CIRCULAR, RECTANGULAR or SQUARE) of the cask intermediate set-down level. Omitted if no separate cask intermediate set-down level exists.
CH-SL-SL	F9.3	Cask Intermediate Set-Down Level - Uniform Static Loading Limit (Lbs/Sq Ft) Maximum allowable uniform static load (in pounds per square foot) on the cask intermediate set-down level. Omitted if no separate cask intermediate set-down level exists.
CH-SL-ILL	F9.3	Cask Intermediate Set-Down Level - Maximum Dynamic Load (Lbs/Sq Ft) Maximum allowable dynamic load (in pounds per square foot) on the cask intermediate set-down level. Omitted if no separate cask intermediate set-down level exists.
CH-SL-L	212	Cask Intermediate Set-Down Level - Length (Feet, Inches) Minimum length (in feet and inches) of the cask intermediate set-down level. Omitted if no separate cask intermediate set-down level exists. Length is the larger of the two rectangular dimensions.
CH-SL-W	212	Cask Intermediate Set-Down Level - Diameter/Width (Feet, Inches) Minimum diameter (circular) or width (rectangular, square) (in feet and inches) of the cask intermediate set-down level. Omitted if no separate cask intermediate set-down level exists. Width is the smaller of the two rectangular dimensions.
CH-LA-S-Q	A1	Impact Absorber on the Cask Intermediate Set-Down Level? Yes if the cask intermediate set-down (loading) area floor has an impact absorber, otherwise No.
CH-LA-S-H	212	Impact Absorber - Thickness (Feet, Inches)

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Thickness of impact absorber (in feet and inches) on cask intermediate set-down level. Omitted if no impact absorber exists.
CH-LA-SC	A18	Impact Absorber - Construction Type(s) of materials used in the construction of the impact absorber. Omitted if no impact absorber exists.
CH-SL-C	A254	Cask Intermediate Set-Down Level Comment Comments (if applicable) on the configuration, dimensions, etc., of the cask intermediate set-down level.
CH-LA-CN	A11	Cask Set-Down (Loading) Area - Configuration Configuration (CIRCULAR, RECTANGULAR or SQUARE) of the cask set-down (loading) area.
CH-LA-SFL	F9.3	Cask Set-Down (Loading) Area - Uniform Static Floor Loading (Lbs/Sq Ft) Maximum allowable uniform static load (in pounds per square foot) on the cask set-down floor.
CH-LA-ILL	F9.3	Cask Set-Down (Loading) Area - Maximum Dynamic Load (Lbs/Sq Ft) Maximum allowable dynamic load (in pounds per square foot) on the cask set-down (loading) area floor.
CH-LA-L	212	Cask Set-Down (Loading) Area - Length (Feet, Inches) Minimum length (longer of the two dimensions for rectangular area) (in feet and inches) of the cask set-down (loading) area. Omitted for circular area.
CH-LA-W	212	Cask Set-Down (Loading) Area - Diameter/Width (Feet, Inches) Minimum diameter (circular) or width (for rectangular or square areas, with the shorter of the two dimensions for a rectangular area) (in feet and inches) of the cask set-down (loading) area.
CH-LA-DE	212	Cask Set-Down (Loading) Area - Depth Below Water Line (Feet, Inches) Depth (in feet and inches) of the cask set-down (loading) area floor below the normal operating spent-fuel pool water line. If a stand, plate, or impact absorber is on the floor of the cask set-down area, this dimension is measured from the water line to the top of the stand, plate, or impact absorber.
CH-LA-C1 and CH-LA-C2	A254 plus A254	Cask Set-Down (Loading) Area Comment Comments, if applicable, on the configuration, dimensions, etc., of the cask set-down area.

Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-LA-Q	A1	Impact Absorber on the Cask Loading Area Floor? Yes if the cask set-down (loading) area floor has an impact absorber, otherwise No.
CH-LA-H	212	Impact Absorber - Thickness (Feet, Inches) Thickness of the impact absorber (in feet and inches) on the cask set-down (loading) area floor. Omitted if no impact absorber exists.
CH-LA-IC	A18	Impact Absorber - Construction Type(s) of materials used in the construction of the impact absorber.
CH-LA-STND	A1	Cask Set-Down (Loading) Area Auxiliary Data - Is a Stand on Bottom of Loading Area Floor? Yes if there is a stand on the bottom of the cask set-down (loading) area floor, otherwise No.
CH-LA-STH	212	Cask Set-Down (Loading) Area Auxiliary Data - Height of Top of Stand Above Loading Area Floor (Feet, Inches) If there is a stand on the bottom of the cask set-down (loading) area, distance (in feet and inches) from the top of the stand to the loading area floor. Omitted if no stand exists.
CH-LA-FAL	212	Cask Set-Down (Loading) Area Auxiliary Data - Overall Length of Fuel Assembly (Feet, Inches) Total length (in feet and inches) of the type of fuel assembly used in this reactor.
CH-LA-AFL	212	Cask Set-Down (Loading) Area Auxiliary Data - Active Fuel Length (Feet, Inches) Distance (in feet and inches) from the top of the uppermost fuel pellet to the bottom of the lowermost fuel pellet in the type of fuel assembly used in this reactor.
CH-LA-TPL	212	Cask Set-Down (Loading) Area Auxiliary Data - Length from Top of Assembly to Top of Active Fuel Length (Feet, Inches) Distance (in feet and inches) from the top of a fuel assembly used in this reactor to the top of the uppermost fuel pellet.
CH-LA-WC	212	Cask Set-Down (Loading) Area Auxiliary Data - Required Water Coverage Above Top of Assembly During Cask Loading (Feet, Inches) Minimum distance (in feet and inches) required between the top of the fuel assembly and the surface of the water in the spent-fuel pool when a fuel assembly is being moved into a cask. This could be a technical specification limit or a physical limit for the lifting height of the fuel handling machine. If no information is available on a technical specification or physical limit, default values of six feet for BWRs and eight feet for PWRs are used.

Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CH-LAS-AH	212	Cask Set-Down (Loading) Area Auxiliary Data - Max Height of Bottom of Assembly Above Loading Area Floor (Feet, Inches) Maximum height (in feet and inches) of the bottom of a fuel assembly (in its uppermost position) above the set-down (loading) floor when being moved into a cask. If a stand, plate, or impact absorber is on the loading area floor, this dimension is from the bottom of the assembly to the top of the stand, plate, or impact absorber.
CH-LA-WC-C	A254	Required Water Coverage Above Top of Assembly During Cask Loading Comment Comments (if applicable) on the required water coverage above top of assembly during cask loading, including whether limit is based on technical specifications or physical limit for the lifting height of the fuel handling machine, etc.
CH-C1	A254	Spent-Fuel Pool Area Comment
and	plus	Comments (if applicable) on cask handling from the receiving area to the set-down (loading) area and clarification of
CH-C2	A254	individual data values if necessary.

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Summary Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CS-SR-WT	16	<p>Summary On-Site Vehicle Limits - Weight (Lbs)</p> <p>Most restrictive vehicle weight limitation (in pounds), based on the on-site cask access route, from the site boundary into and including the receiving area.</p>
CS-SR-D	212	<p>Summary On-Site Vehicle Limits - Diameter/Width (Feet, Inches)</p> <p>Most restrictive vehicle diameter or width limitation (in feet and inches), based on the on-site cask access route, from the site boundary into and including the receiving area. The restriction may be the width of the receiving area access door, etc.</p>
CS-SR-L	13, 12	<p>Summary On-Site Vehicle Limits - Length (Feet, Inches)</p> <p>Most restrictive vehicle length limitation (in feet and inches), based on the on-site cask access route, from the site boundary into and including the receiving area.</p>
CS-SR-H	212	<p>Summary On-Site Vehicle Limits - Height (Feet, Inches)</p> <p>Most restrictive vehicle height limitation (in feet and inches), based on the on-site cask access route, from the site boundary into and including the receiving area.</p>
CS-SR-R-D	15	<p>Summary On-Site Vehicle Limits - Road Distance (Feet)</p> <p>Distance (in feet) of the on-site access route, from the site boundary to the receiving area.</p>
CS-SR-R-CN	A30	<p>Summary On-Site Vehicle Limits - Road Configuration</p> <p>Description of the road configuration limitations (that is, curves, sharp turns, etc.) of the on-site access route from the site boundary to the receiving area.</p>
CS-SR-WT-C	A254	<p>Summary On-Site Vehicle Limits - Weight Comment</p> <p>Description of the most restrictive vehicle weight limitation for the on-site cask access route, from the site boundary into and including the receiving area.</p>
CS-SR-D-C	A254	<p>Summary On-Site Vehicle Limits - Diameter/Width Comment</p> <p>Description of the most restrictive vehicle diameter or width limitation for the on-site cask access route, from the site boundary into and including the receiving area.</p>
CS-SR-L-C	A254	<p>Summary On-Site Vehicle Limits - Length Comment</p> <p>Description of the most restrictive vehicle length limitation for the on-site cask access route, from the site boundary into and including the receiving area.</p>

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Summary Data**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CS-SR-H-C	A254	<p>Summary On-Site Vehicle Limits - Height Comment</p> <p>Description of the most restrictive vehicle length limitation for the cask access route, from the site boundary into and including the receiving area.</p>
CS-SR-R-C	A254	<p>Summary On-Site Vehicle Limits - Road Distance and Road Configuration Comment</p> <p>Description of the most restrictive road distance and/or road configuration limitation for the on-site cask access route, from the site boundary into and including the receiving area.</p>
CS-RL-WT	16	<p>Summary Cask Limits - Weight (Lbs)</p> <p>Most restrictive weight limitation (in pounds) for the on-site cask access route, from the cask receiving area to set-down (loading) area. The restriction may be a crane capacity, cask weight used in the cask-drop analysis, etc.</p>
CS-RL-D	212	<p>Summary Cask Limits - Diameter/Width (Feet, Inches)</p> <p>Most restrictive diameter or width limitation (in feet and inches) for the cask travel path, from the cask receiving area to the set-down (loading) area.</p>
CS-RL-L	212	<p>Summary Cask Limits - Height/Length (Feet, Inches)</p> <p>Most restrictive height or length limitation (in feet and inches) for the cask travel path, from the cask receiving area to the set-down (loading) area.</p>
CS-RL-WT-C	A254	<p>Summary Cask Limits - Weight Comment</p> <p>Description of the most restrictive weight limitation for the cask travel path, from the cask receiving area to the set-down (loading) area.</p>
CS-RL-D-C	A254	<p>Summary Cask Limits - Diameter/Width Comment</p> <p>Comments (if applicable) on the most restrictive diameter or width limitation (in feet and inches) for the cask travel path, from the cask receiving area to the set-down (loading) area.</p>
CS-RL-L-C	A254	<p>Summary Cask Limits - Height/Length Comment</p> <p>Comments (if applicable) on the most restrictive height or length limitation for the cask travel path, from the cask receiving area to the set-down (loading) area.</p>
CSDOE25Q	A1	<p>Current Cask Handling Capability - 25-Ton?</p> <p>Yes if a 25-ton DOE reference spent-fuel truck cask can be handled currently, otherwise No.</p>

Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Summary Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
CSDOEH40Q	A1	Current Cask Handling Capability - 40-Ton? Yes if a 40-ton DOE reference spent-fuel truck cask can be handled currently, otherwise No.
CSDOEH100Q	A1	Current Cask Handling Capability - 100-Ton? Yes if a 100-ton DOE reference spent-fuel rail cask can be handled currently, otherwise No.
CSDOEH125Q	A1	Current Cask Handling Capability - 125-Ton? Yes if a 125-ton DOE reference spent-fuel rail/barge cask can be handled currently, otherwise No.
CSDOES25Q	A1	Cask Handling Capability With Revised License or Operating Instructions - 25-Ton? Yes if a 25-ton DOE reference spent-fuel truck cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSDOES40Q	A1	Cask Handling Capability With Revised License or Operating Instructions - 40-Ton? Yes if a 40-ton DOE reference spent-fuel truck cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSDOES100Q	A1	Cask Handling Capability With Revised License or Operating Instructions - 100-Ton? Yes if a 100-ton DOE reference spent-fuel rail cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSDOES125Q	A1	Cask Handling Capability With Revised License or Operating Instructions - 125-Ton? Yes if a 125-ton DOE reference spent-fuel rail/barge cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSDOER25Q	A1	Cask Handling Capability With Facility Modification - 25-Ton? Yes if a 25-ton DOE reference spent-fuel truck cask can be handled with a modification(s) to the reactor, otherwise No.
CSDOER40Q	A1	Cask Handling Capability With Facility Modification - 40-Ton? Yes if a 40-ton DOE reference spent-fuel truck cask can be handled with a modification(s) to the reactor, otherwise No.
CSDOER100Q	A1	Cask Handling Capability With Facility Modification - 100-Ton? Yes if a 100-ton DOE reference spent-fuel rail cask can be handled with a modification(s) to the reactor,

Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Summary Data
(Cont.)

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		otherwise No.
CSDOER125Q	A1	Cask Handling Capability With Facility Modification - 125-Ton? Yes if a 125-ton DOE reference spent-fuel rail/barge cask can be handled with a modification(s) to the reactor, otherwise No.
CSDOECAP-C	A254	Current Cask Handling Capability Comment Comments (if applicable) on the current cask handling capability and existing limitations.
CSDOECDA-C	A254	Cask Handling Capability with Revised License or Operating Instructions Comment Comments (if applicable) related to the revised license procedures or operating instructions that would be required to handle larger DOE reference casks than can currently be handled.
CS-DOE-M-C	A254	Cask Handling Capability with Facility Modification Comment Comments (if applicable) related to the facility modifications that would be required to handle larger DOE reference casks than can be handled with revised license procedures or operating instructions.
CSSLAN25Q	A1	Current Cask Handling Capability - LWT? Yes if a legal weight truck (LWT) second level assessment spent-fuel truck cask can be handled currently, otherwise No.
CSSLAN40Q	A1	Current Cask Handling Capability - OMT? Yes if an overweight truck (OMT) second level assessment spent-fuel truck cask can be handled currently, otherwise No.
CSSLAN100Q	A1	Current Cask Handling Capability - 100-Ton? Yes if a 100-ton second level assessment spent-fuel rail cask can be handled currently, otherwise No.
CSSLAN125Q	A1	Current Cask Handling Capability - 125-Ton? Yes if a 125-ton second level assessment spent-fuel rail/barge cask can be handled currently, otherwise No.
CSSLAS25Q	A1	Cask Handling Capability With Revised License or Operating Instructions - LWT? Yes if an LWT second level assessment spent-fuel truck cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSSLAS40Q	A1	Cask Handling Capability With Revised License or Operating Instructions - OMT?

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Summary Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Yes if an OWT second level assessment spent-fuel truck cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSSLAS100Q	A1	Cask Handling Capability With Revised License or Operating Instructions - 100-Ton? Yes if a 100-ton second level assessment spent-fuel rail cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSSLAS125Q	A1	Cask Handling Capability With Revised License or Operating Instructions - 125-Ton? Yes if a 125-ton second level assessment spent-fuel rail/barge cask can be handled with a revision to the cask drop analysis, or other paperwork change, otherwise No.
CSSLAR25Q	A1	Cask Handling Capability With Facility Modification - LWT? Yes if an LWT second level assessment spent-fuel truck cask can be handled with a modification(s) to the reactor, otherwise No.
CSSLAR40Q	A1	Cask Handling Capability With Facility Modification - OWT? Yes if an OWT second level assessment spent-fuel truck cask can be handled with a modification(s) to the reactor, otherwise No.
CSSLAR100Q	A1	Cask Handling Capability With Facility Modification - 100-Ton? Yes if a 100-ton second level assessment spent-fuel rail cask can be handled with a modification(s) to the reactor, otherwise No.
CSSLAR125Q	A1	Cask Handling Capability With Facility Modification - 125-Ton? Yes if a 125-ton second level assessment spent-fuel rail/barge cask can be handled with a modification(s) to the reactor, otherwise No.
CSSLACAP-C	A254	Current Cask Handling Capability Comment Comments (if applicable) on the current cask handling capability and existing limitations.
CSSLACDA-C	A254	Cask Handling Capability with Revised License or Operating Instructions Comment Comments (if applicable) related to the revised license procedures or operating instructions that would be required to handle larger second level assessment casks than can currently be handled.
CS-SLA-M-C	A254	Cask Handling Capability with Facility Modification Comment

**Facility Interface Capability Assessment
Data Item Descriptions - Cask Handling Summary Data
(Cont.)**

<u>Data Item</u>	<u>Format</u>	<u>Description</u>
		Comments (if applicable) related to the facility modifications that would be required to handle larger second level assessment casks than can be handled with revised license procedures or operating instructions.
CS-C-OTP-C	A254	Plans and Capability to Use Overweight Truck Cask Comment Comments (if applicable) on any on-site plans and the capability to make use of overweight truck spent-fuel casks (50,001 to 80,000 pounds).
CS-C-125	A254	Potential to Use Casks Heavier Than 125 Tons On-Site Comment Comments (if applicable) on equipment and procedural changes necessary to make use of spent-fuel casks weighing between 125 tons and 150 tons.

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