

U.S. Department of Energy

# *233U Safe Storage Program*

INEEL/EXT-99-00478

Revision 0

June 1999

## *TBD/TBR Resolution Plan*

*For the*

*<sup>233</sup>U Safe Storage System  
Requirements Document*



**TBD/TBR Resolution Plan  
for the  
<sup>233</sup>U Safe Storage  
System Requirements Document**

**Revision 0**

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**Prepared by  
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## **TBD/TBR RESOLUTION PLAN**

The “To Be Determined” (TBD) and “To Be Reviewed” (TBR) list included in the System Requirements Document for the <sup>233</sup>U Safe Storage System contain a number of requirements that could not be determined or verified at the time of the issuance of that document. Requirement issues such as these are typical at this stage of a program and require further analysis or investigation. Accordingly, an action plan to resolve these issues is required.

Requirements issues and uncertainties imply risk to the program as has been correctly observed by the Defense Nuclear Facilities Safety Board in their response to the SRD submittal. The purpose of this plan is to determine what actions are required to resolve the issues and close out the TBDs and TBRs. The following tables list the complete requirement statement associated with each TBD and TBR, any related assumptions, the action planned to resolve the issue, any prerequisites, the organization responsible for performing the action, and the estimated completion date.

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**Table 5-1.** TBD Resolution Plan

TBD Number	SRD Paragraph	SRD Requirement	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBD-1	1.2, para. 1	These requirements also address the processing and interface with the EM Waste Management program for disposition of wastes generated by the activities associated with this system and those 97-1 materials that may be classified as wastes per the Safeguard Termination Limits (STLs) {TBD}.	<ul style="list-style-type: none"> <li>Decisions regarding the selection and timing of wastes to be transferred to EM-30 are the responsibility of EM, with input from the technical team.</li> <li><sup>233</sup>U-bearing wastes not listed in the SRD are the responsibility of EM-30; the disposal of these wastes will not be addressed under this Program.</li> <li>Wastes generated by the operation of the Safe Storage System will be transferred to EM-30 for disposal.</li> <li>Existing material determined to be waste will be managed by EM-30 rather than introduced into the Safe Storage System.</li> </ul>		<ul style="list-style-type: none"> <li>Establish official DOE STLs</li> </ul>	<ul style="list-style-type: none"> <li>11/1999</li> </ul>	ORNL, NN
TBD-2	1.2, para. 1	It is recognized the <sup>233</sup> U is not considered transuranic waste and, as such, its disposition is {TBD}.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>		<ul style="list-style-type: none"> <li>Replace existing SRD statement with the following: “<sup>233</sup>U-bearing material is not <i>technically</i> considered transuranic, and <sup>233</sup>U disposition options will be assessed and specific paths selected via NEPA ROD tradeoff study analyses in support of overall program decision making.”</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	INEEL
TBD-3	Table 3-2	<sup>232</sup> U content and Total Quantities of U at RWMC		<ul style="list-style-type: none"> <li>INEEL Site Assessments</li> </ul>	<ul style="list-style-type: none"> <li>Update SRD to reflect <sup>232</sup>U values supplied by INEEL</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	INEEL
TBD-4	Table 3-4	Chemical/Physical form, <sup>232</sup> U content, <sup>233</sup> U kg’s, total U, # pkgs			<ul style="list-style-type: none"> <li>Complete site assessments to acquire missing data and place in SRD</li> </ul>	<ul style="list-style-type: none"> <li>12/1999</li> </ul>	LLNL
TBD-5	3.2.1	Long-term storage capacity of the entire <sup>233</sup> U Safe Storage System shall accommodate {TBD}kg of <sup>233</sup> U material as specified in the <sup>233</sup> U Disposition Environmental Impact Statement (EIS) Record of Decision (ROD), with {TBD}% margin to accommodate future <sup>233</sup> U materials.	<ul style="list-style-type: none"> <li>The capacity of the Safe Storage System will be sufficient to accommodate the entire inventory of materials listed in the SRD.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Determine amount of <sup>233</sup>U material to be stored through tradeoff analyses</li> <li>Requires decision as to whether to dispose of portions of the current inventory.</li> </ul>	<ul style="list-style-type: none"> <li>10/2001</li> </ul>	EM-60/MD
TBD-6	3.2.3.1.1	That portion of the 97-1 <sup>233</sup> U material at existing DOE storage sites (see Section 3.1.3) not designated as waste or designated to be transferred for disposition, in accordance with {TBD}, shall be transferred to commercial or DOE SNM shippers for transport to the <sup>233</sup> U Safe Storage System for processing and storage as appropriate.	<ul style="list-style-type: none"> <li>Decisions regarding the disposition of <sup>233</sup>U will be made in the EIS to be prepared by DOE’s Office of Fissile Materials Disposition (MD) in coordination with the Program.</li> <li>Decisions regarding the selection and timing of wastes to be transferred to EM-30 are the responsibility of EM, with input from the technical team.</li> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>		<ul style="list-style-type: none"> <li>Replace “TBD” with “<sup>233</sup>U ROD” in text of SRD</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team

TBD Number	SRD Paragraph	SRD Requirement	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBD-7	3.2.3.1.1 (3)	Requirements for the 97-1 <sup>233</sup> U Inventory to commercial or DOE SNM shippers interface shall be defined in {TBD} Interface Control Document (ICD).	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> <li>Determine the amount to be shipped through tradeoff analyses</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> <li>Date of ROD</li> </ul>	Technical Team
TBD-8	3.2.3.1.2 (2)	Requirements for the Oak Ridge Molten Salt Reactor Experiment to commercial or DOE SNM shippers interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team
TBD-9	3.2.3.1.3	Natural and/or depleted uranium at {TBD} existing storage sites shall be transferred to commercial or DOE SNM shippers for transport to the <sup>233</sup> U Safe Storage System for blending with <sup>233</sup> U materials as required.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>		<ul style="list-style-type: none"> <li>Revise text to delete “at TBD existing storage sites”</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team
TBD-10	3.2.3.1.3 (3)	Requirements for the natural and depleted uranium storage sites to commercial or DOE SNM shippers interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> <li>Identify prospective DU/EU sources</li> <li>Define quantities through tradeoff analyses</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> <li>Date of ROD</li> <li>Date of ROD</li> </ul>	Technical Team
TBD-11	3.2.3.1.4 (4)	Commercial or DOE SNM shippers shall transport natural and depleted uranium from {TBD} sites to the <sup>233</sup> U Safe Storage System for processing.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Delete “from {TBD} sites”</li> <li>Will be addressed in TBD-12</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team
TBD-12	3.2.3.1.4 (5)	Requirements for the commercial and DOE SNM shippers to <sup>233</sup> U Safe Storage System interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> <li>Make decision to downblend or not through tradeoff analyses</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> <li>Date of ROD</li> </ul>	Technical Team
TBD-13	3.2.3.1.5	Commercial or DOE SNM shippers shall transport packaged <sup>233</sup> U materials from the <sup>233</sup> U Safe Storage System to {TBD} DOE-MD for final disposition.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> </ul>		<ul style="list-style-type: none"> <li>Revise text to read as follows:  “Commercial or DOE SNM shippers shall transport packaged <sup>233</sup>U materials from the <sup>233</sup>U Safe Storage System to Disposition site(s) {TBD}.”</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team
TBD-14	3.2.3.1.5 (2)	Requirements for the commercial or DOE SNM shippers to DOE-MD interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> <li>Decisions regarding the disposition of <sup>233</sup>U will be made in the EIS to be prepared by DOE’s Office of Fissile Materials Disposition (MD) in coordination with the Program.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Change “DOE-MD” to “Disposition Site(s)”</li> <li>Identify ICD</li> <li>Develop ICD</li> <li>Make decision to dispose of materials through tradeoff analyses</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> <li>10/1999</li> <li>9 months after ROD</li> <li>Date of ROD</li> </ul>	Technical Team

TBD Number	SRD Paragraph	SRD Requirement	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBD-15	3.2.3.1.6	Commercial or DOE SNM shippers shall transport waste materials, packaged to meet EM Waste Acceptance Criteria, from the <sup>233</sup> U Safe Storage System to {TBD} DOE-EM Waste Management facilities for disposition.	<ul style="list-style-type: none"> <li>The Waste Threshold Criteria for <sup>233</sup>U provides a basis to distinguish between materials to be managed under the program and those managed as waste.</li> <li>Decisions regarding the selection and timing of wastes to be transferred to EM-30 are the responsibility of EM, with input from the technical team.</li> <li><sup>233</sup>U-bearing wastes not listed in the SRD are the responsibility of EM-30; the disposal of these wastes will not be addressed under this Program.</li> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> <li>Wastes generated by the operation of the Safe Storage System will be transferred to EM-30 for disposal.</li> </ul>		<ul style="list-style-type: none"> <li>Revise text to delete "TBD"</li> <li>Address issue through TBD-16</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team
TBD-16	3.2.3.1.6 (2)	Requirements for the commercial or DOE SNM shippers to DOE-EM Waste Management interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Waste Threshold Criteria for <sup>233</sup>U provides a basis to distinguish between materials to be managed under the program and those managed as waste.</li> <li>Decisions regarding the selection and timing of wastes to be transferred to EM-30 are the responsibility of EM, with input from the technical team.</li> <li><sup>233</sup>U-bearing wastes not listed in the SRD are the responsibility of EM-30; the disposal of these wastes will not be addressed under this Program.</li> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> <li>Wastes generated by the operation of the Safe Storage System will be transferred to EM-30 for disposal.</li> </ul>	<ul style="list-style-type: none"> <li>Waste Threshold criteria</li> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team /EM-30
TBD-17	3.2.3.1.7	Commercial or DOE SNM shippers shall transport packaged <sup>233</sup> U materials between the <sup>233</sup> U Safe Storage System and {TBD} beneficial use facilities and programs.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>		<ul style="list-style-type: none"> <li>Determine amount of <sup>233</sup>U inventory that will be earmarked for beneficial use</li> </ul>	<ul style="list-style-type: none"> <li>12/1999</li> </ul>	<ul style="list-style-type: none"> <li>DOE-OR/ NE</li> </ul>

TBD Number	SRD Paragraph	SRD Requirement	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBD-18	3.2.3.1.7 (1)	Requirements for the commercial or DOE SNM shippers to beneficial use program interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>12/1999</li> <li>9 months after ROD</li> </ul>	DOE-OR/ NE
TBD-19	3.2.3.1.8	The <sup>233</sup> U Safe Storage System shall be located at {TBD} sites and facilities.	<ul style="list-style-type: none"> <li>All DOE sites not currently scheduled to be closed are potential sites for long-term <sup>233</sup>U storage and processing and will be considered in the analysis of alternative sites. The primary sites under consideration are INEEL, ORNL, SRS, and Hanford due to their defined long-term missions regarding nuclear materials.</li> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Conduct trade studies in support of the ROD</li> </ul>	<ul style="list-style-type: none"> <li>Date of ROD</li> </ul>	SE/EM-60/MD
TBD-20	3.2.3.1.8 (2)	Requirements for the sites and facilities to <sup>233</sup> U Safe Storage System interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> <li>Revise text to read:                      "Requirements for the sites and facilities (selected as part of the NEPA process) to <sup>233</sup>U Safe Storage System interface shall be defined in {TBD} ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> <li>6/1999</li> </ul>	Technical Team
TBD-21	3.2.3.1.9 (1)	Requirements for the <sup>233</sup> U Safe Storage System to external shipping container source interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> <li>SDD</li> </ul>	<ul style="list-style-type: none"> <li>Determine how shipping containers are to be procured and supplied to the program</li> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>Date of ROD</li> <li>10/1999</li> <li>2 months after SDD</li> </ul>	Technical Team
TBD-22	3.2.3.2.1 (3)	Requirements for the Transportation Subsystem/Processing Subsystem interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team

TBD Number	SRD Paragraph	SRD Requirement	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBD-23	3.2.3.2.2 (4)	Requirements for the Transportation Subsystem/Storage Subsystem interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team
TBD-24	3.2.3.2.3 (3)	Requirements for the Transportation Subsystem/Waste Management Subsystem interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Waste Threshold Criteria for <sup>233</sup>U provides a basis to distinguish between materials to be managed under the program and those managed as waste.</li> <li>Decisions regarding the selection and timing of wastes to be transferred to EM-30 are the responsibility of EM, with input from the technical team.</li> <li><sup>233</sup>U-bearing wastes not listed in the SRD are the responsibility of EM-30; the disposal of these wastes will not be addressed under this Program.</li> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> <li>Wastes generated by the operation of the Safe Storage System will be transferred to EM-30 for disposal.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team
TBD-25	3.2.3.2.4 (5)	Requirements for the co-located Processing Subsystem/Storage Subsystem interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team
TBD-26	3.2.3.2.5 (2)	Requirements for the co-located Processing Subsystem to Waste Management Subsystem interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team

TBD Number	SRD Paragraph	SRD Requirement	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBD-27	3.2.3.2.6 (2)	Requirements for the co-located Storage Subsystem to Waste Management Subsystem interface shall be defined in {TBD} ICD.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Identify ICD</li> <li>Develop ICD</li> </ul>	<ul style="list-style-type: none"> <li>10/1999</li> <li>9 months after ROD</li> </ul>	Technical Team
TBD-28	3.2.4.2.15	The database shall include surveillance results for a {TBD} period.		<ul style="list-style-type: none"> <li>Storage Standard</li> </ul>	<ul style="list-style-type: none"> <li>Revise SRD to reflect Storage Standard</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team/EM-60
TBD-29	3.2.4.2.18	The database shall include records of the dates of inspections for a {TBD} period.		<ul style="list-style-type: none"> <li>Storage Standard</li> </ul>	<ul style="list-style-type: none"> <li>Revise SRD to reflect Storage Standard</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team/EM-60
TBD-30	3.2.8.1	All <sup>233</sup> U Safe Storage System subsystems shall be designed with {TBD}% reliability to ensure the safe operation of all facilities and equipment.		<ul style="list-style-type: none"> <li>ROD</li> <li>System Architecture</li> </ul>	<ul style="list-style-type: none"> <li>Perform System Reliability and Availability analysis to determine requirements</li> </ul>	<ul style="list-style-type: none"> <li>9 months after ROD</li> </ul>	Technical Team
TBD-31	3.2.8.2	All <sup>233</sup> U Safe Storage System subsystems shall be designed to ensure {TBD}% availability of equipment, replacements, and upgrades throughout all phases of the life cycle.		<ul style="list-style-type: none"> <li>ROD</li> <li>System Architecture</li> </ul>	<ul style="list-style-type: none"> <li>Perform System Reliability and Availability analysis to determine requirements</li> </ul>	<ul style="list-style-type: none"> <li>9 months after ROD</li> </ul>	Technical Team
TBD-31a	3.2.8.3	The <sup>233</sup> U Safe Storage System shall be designed to ensure maintainability of facilities and equipment throughout all phases of the life cycle.			<ul style="list-style-type: none"> <li>Revise text to establish specific Maintainability objectives</li> </ul>	<ul style="list-style-type: none"> <li>9 months after ROD</li> </ul>	Technical Team
TBD-32	3.2.11.6.2	Accepted industry design standards {TBD} should be followed in facility design.			<ul style="list-style-type: none"> <li>Revise text to refer to 3.2.11.4 for approach to industry standards</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team
TBD-33	3.3.1.1	The Processing Subsystem shall process the 97-1 material at a rate of {TBD} to the final form while ensuring that personnel and public safety are not compromised.		<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Requires decision as to schedule objective for completion of processing</li> </ul>	<ul style="list-style-type: none"> <li>Include in SDD</li> </ul>	EM-60
TBD-34	3.3.1.1.1	The <sup>233</sup> U Safe Storage System shall have {TBD} capability for isotope separation for beneficial use.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Perform analysis to determine processing rate requirement after ROD defines the quantity of materials to be stored</li> </ul>	<ul style="list-style-type: none"> <li>Date of ROD</li> </ul>	EM-60/NE/SE

TBD Number	SRD Paragraph	SRD Requirement	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBD-35	3.4.1.1	The Storage Subsystem shall place {TBD quantity} of DOE-SAFT-0067 compliant <sup>233</sup> U storage packages into safe storage for a period of at least 50 years.	<ul style="list-style-type: none"> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> <li>Long-term solutions regarding storage, disposal, and/or beneficial use of the material will employ existing facilities and capabilities, to the extent possible.</li> <li>In addition to storage of homogeneous <sup>233</sup>U, storage of mixed <sup>233</sup>U, Pu, enriched U and other special nuclear materials and/or mixtures of those materials will be considered in assessing the options available to the Program.</li> <li>The Safe Storage System will be capable of accepting isotopic concentrations up to 100% <sup>233</sup>U.</li> <li>The capacity of the Safe Storage System will be sufficient to accommodate the entire inventory of materials listed in the SRD.</li> <li>Stored material will be retrievable.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Determine quantity to be stored through tradeoff study analyses</li> </ul>	<ul style="list-style-type: none"> <li>Date of ROD</li> </ul>	EM-60/SE
TBD-36	3.4.1.2	The Storage Subsystem shall have {TBD}% capacity for temporary storage.		<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Determine extra capacity needed through tradeoff study analyses</li> </ul>	<ul style="list-style-type: none"> <li>Date of ROD</li> </ul>	Technical Team
TBD-37	3.4.1.3	The <sup>233</sup> U Storage Subsystem shall be capable of emplacing and retrieving {TBD} packages of materials within {TBD timeframe}.		<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Determine performance needed through tradeoff study analyses</li> </ul>	<ul style="list-style-type: none"> <li>Date of ROD</li> </ul>	Technical Team
TBD-38	3.5.8.1	Subsystem Reliability. {TBD}		<ul style="list-style-type: none"> <li>ROD</li> <li>System Architecture</li> </ul>	<ul style="list-style-type: none"> <li>Perform subsystem reliability and availability analyses to determine requirements</li> </ul>	<ul style="list-style-type: none"> <li>9 months after ROD</li> </ul>	Technical Team
TBD-39	3.5.8.2	Transportation packages should be reusable and have {TBD}% availability, including turnaround time after each use.		<ul style="list-style-type: none"> <li>ROD</li> <li>System Architecture</li> </ul>	<ul style="list-style-type: none"> <li>Perform subsystem reliability and availability analyses to determine requirements</li> </ul>	<ul style="list-style-type: none"> <li>9 months after ROD</li> </ul>	Technical Team
TBD-40	3.6.1.1	The Waste Management Subsystem shall have {TBD}% capacity to receive wastes from other subsystem operations.		<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Determine performance needed through tradeoff study analyses</li> </ul>	<ul style="list-style-type: none"> <li>Date of ROD</li> </ul>	Technical Team
TBD-41	3.2.3.1.8 (1)	These sites and facilities shall provide {TBD} services to the <sup>233</sup> U Safe Storage System.			<ul style="list-style-type: none"> <li>Revise text to delete "TBD"</li> </ul>	<ul style="list-style-type: none"> <li>6/1999</li> </ul>	Technical Team

Table 5-2. TBR Resolution Plan

TBD Number	Source Paragraph	Requirement/Title Text	Related Program Planning Assumption(s), see PEP Section 2.3 for full set	Prerequisite	Required Action	Estimated Completion Date	Responsible Organization
TBR-1	3.2.3.2.4	Processing Subsystem / Storage Subsystem Interface {TBR}	<ul style="list-style-type: none"> <li>All DOE sites not currently scheduled to be closed are potential sites for long-term <sup>233</sup>U storage and processing and will be considered in the analysis of alternative sites. The primary sites under consideration are INEEL, ORNL, SRS, and Hanford due to their defined long-term missions regarding nuclear materials.</li> <li>The Technical Team Chair will coordinate with the NMI program to forward to the Secretary of Energy options and recommendations regarding managing "national asset" materials; storage, disposal, and beneficial use options; and other recommendations regarding <sup>233</sup>U.</li> <li>MD will issue the ROD for the disposition of <sup>233</sup>U not later than 10/2001.</li> <li>Long-term solutions regarding storage, disposal, and/or beneficial use of the material will employ existing facilities and capabilities, to the extent possible.</li> <li>In addition to storage of homogeneous <sup>233</sup>U, storage of mixed <sup>233</sup>U, Pu, enriched U and other special nuclear materials and/or mixtures of those materials will be considered in assessing the options available to the Program.</li> <li>The Safe Storage System will be capable of accepting isotopic concentrations up to 100% <sup>233</sup>U.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Determine as part of ROD analysis whether facilities are to be co-located</li> </ul>	10/2001	Technical Team
TBR-2	3.2.4.2	Data Storage. {TBR}		<ul style="list-style-type: none"> <li>Storage Standard</li> </ul>	<ul style="list-style-type: none"> <li>Revise based on Storage Standard text</li> </ul>	6/1999	Technical Team
TBR-3	3.2.4.2.19	The data base shall include fill gas composition and pressure {TBR} on sealing.		<ul style="list-style-type: none"> <li>Storage Standard</li> </ul>	<ul style="list-style-type: none"> <li>Revise based on Storage Standard text</li> </ul>	6/1999	Technical Team
TBR-4	3.3.2.12	The Processing Subsystem should include the capability to blend materials, as required. {TBR}	<ul style="list-style-type: none"> <li>In addition to storage of homogeneous <sup>233</sup>U, storage of mixed <sup>233</sup>U, Pu, enriched U and other special nuclear materials and/or mixtures of those materials will be considered in assessing the options available to the Program.</li> <li>A <sup>233</sup>U isotopic concentration of less than 12wt% <sup>233</sup>U in <sup>238</sup>U (equivalent to &lt;20% <sup>235</sup>U), consistent with additional constraints as documented in <i>Definition of Weapons Usable Uranium-233</i>, ORNL/TM-13517, is considered non-weapons usable.</li> </ul>	<ul style="list-style-type: none"> <li>ROD</li> </ul>	<ul style="list-style-type: none"> <li>Determine through tradeoff studies whether down-blending is to be done</li> <li>Determine capacity through tradeoff studies</li> </ul>	Date of ROD	Technical Team

