

Exhibit 1 – Table of Design Basis Accidents

Design Basis Accidents with Maximally-exposed Offsite Individual (MOI) Dose Consequences Challenging the Evaluation Guideline and Co-located Worker (CW) Dose Consequences Over 100 rem TED.

Accident	Unmitigated Consequences to MOI (rem TED)	Unmitigated Consequences to CW (rem TED) ¹	Frequency (Unmitigated /Mitigated) ²	Credited Controls
Vehicle falls through 233-H roof resulting in release of tritium with or without fire	13.9	5,380 – 9,410	U/EU	SS: Traffic Control Program (SAC) DID: Fire Detection and Alarm
Crane impact or load drop results in release of tritium (may initiate a fire) in 233-H	13.9	5,380 ³ – 9,410 ⁴	U/EU	SS: Critical Lift Controls (SAC)
Crane impact or load drop results in release of tritium (may initiate a fire) in 234-H	6.96	2,690	U/EU	SS: Critical Lift Controls (SAC)
An aircraft crashes into one of the process buildings at the Tritium Facilities	9.28	3,580	EU/EU	SC: 217-H Fire Barrier, 233-1H Room 40 Fire Barrier
Seismic event damages the Tritium Facility and initiates a follow-on fire resulting in the release of tritium	20.9	8,060	EU/EU	SC: 217-H Fire Barrier DID: Seismic Tritium Confinement System

¹ The dose consequence values come from the Tritium Facilities Consolidated Hazard Analysis (S-CHA-H-0030), August 2019.

² Frequency categories: Anticipated (A), Unlikely (U), Extremely Unlikely (EU), and Beyond Extremely Unlikely (BEU).

³ Number based on oxide release in a fire (plume rise is taken into account).

⁴ Number based on tritide releases and application of a 70% effective oxide dose fraction for process hydride vessels with no fire.

Exhibit 2 – Timeline of Actions

Action	Original Completion Date	Current Estimated Completion Date
Combined Savannah River Tritium Enterprise (SRTE) Safety Basis with new controls	Approved in 2019 ¹	Implement by 2025 ²
<p>The contractor’s Co-located Worker Risk Reduction Strategy, which includes, among other actions:</p> <ul style="list-style-type: none"> • Determine suitability for upgrading classification of H-Area New Manufacturing (HANM), Tritium Extraction Facility (TEF), and Building 234-7H structures, systems, and components to meet natural phenomena hazard design criteria 3 (NDC-3) • Evaluate upgrading and expanding the seismic tritium confinement systems in HANM and TEF • Evaluate upgrading the existing HANM, TEF, and 234-7H fire protection systems to NDC-3 and evaluate the potential for designing alternative fire suppression systems 	2025 ³	2025 ⁴
Start operations of Tritium Finishing Facility	2031 ⁵	2033 ⁶

¹ *Safety Evaluation Report for the Savannah River Site Tritium Safety Basis Documents*, December 2019.

² *MACCS2 Safety Basis Preconceptual Implementation Schedule, Modifications, Procedure Changes and Costs*, January 2020.

³ *Transmittal of the Schedule for Implementing the Strategy for Risk Reduction to the Co-located Worker in Tritium Facilities*, July 2018. The overall completion date is shown.

⁴ Co-located Worker Dose Reduction Strategy Schedule as of June 7, 2021. The overall completion date is shown.

⁵ *Approval of Critical Decision-1, Approve Alternative Selection and Cost Range, for the Tritium Finishing Facility Project at the Savannah River Site*, December 2019.

⁶ *Annual Project Review (APR) Tritium Finishing Facility (TFF) Project*, December 2020.

Exhibit 3 – Current NNSA Federal Staffing Qualification Status

Organization	Position Title	Total Positions Needed (March 2020)	Total Positions Needed (May 2021)	Total Filled	Total Qualified
Savannah River Field Office	Safety System Oversight	2	2	2	2
	Facility Representative	5	4	4	4

Data from organizational charts and staffing analysis

Exhibit 4 – Current EM Federal Staffing Qualification Status

Organization	Position Title	Total Positions Needed (March 2020)	Total Positions Needed (June 2021)	Total Filled	Total Qualified
Nuclear Materials Stabilization	Safety System Oversight	6	6	5	3
	Facility Representative	8	9	7	1
Liquid Waste	Safety System Oversight	10	11	6	5
	Facility Representative	14	14	13	8
Savannah River Laboratory Office	Safety System Oversight	1	1	1	1
	Facility Representative	2	2	2	2