

Non-Line Item Excerpts of Liquid Waste
Quarterly Update of Master Infrastructure List (MIL)
April 2016

FIMS ID	Project Title	Type of Activity	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	Site Area	Justification/Rationale	Mission Impacts	Risk Level
			Burdened		Unburdened Unescalated											Enter a justification / rationale for the need of new investment. For existing infrastructure, enter justification / rationale for upgrades.	Identify mission impact if funding were to continue at current or reduced levels. This should include potential impacts to safety and sufficient operations. (Including impacts to other mission activities)	
	Predictive, Preventive, Corrective M&R	Predictive, Preventive, Corrective M&R	114,003	108,139	110,422	112,750	115,126	117,548	-									Predictive, Preventive,
134482	Procure 3 Commercial Vertical Cantilever Pumps (Split 50/50 with DWPF)	Predictive, Preventive, Corrective M&R	807												H Area	Critical Spares needed for pumps in H-Pump Tanks 7-10 which are in high hazard service and have exceeded their projected service life. PO in place for procurement in FY16. PO# SRRA064189	H-Pump Tank 7-10 are the key pump tanks supporting the transfers of waste streams for sludge and salt processing. Failure of one of these pumps will result in the shutdown of DWPF and/or salt processing (ARP/MCU or SWPF). Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
	East Hill Bridge Installation, Steam Temp Mod, Power Pole Move	Predictive, Preventive, Corrective M&R	3,877												H Area	Known massive underground leaks and overall degraded utilities. Multiple system component failures cause the compressors to operate at 99% load or above with no reserve capacity.	Further degradation to underground service lines ultimately could result in a shutdown of the LW System as the Tank Farm East Hill prepares and provides DWPF and Salt Processing feed streams. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
	East Hill 6-pack Design, shallow trenches	Predictive, Preventive, Corrective M&R	2,025												H Area	Known massive underground leaks and overall degraded utilities. Multiple system component failures cause the compressors to operate at 99% load or above with no reserve capacity.	Further degradation to underground service lines ultimately could result in a shutdown of the LW System as the Tank Farm East Hill prepares and provides DWPF and Salt Processing feed streams. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
	New pumps (Cantilever -split with TF)	Predictive, Preventive, Corrective M&R	700												S Area	Critical Spares needed for pumps in H-Pump Tanks 7-10 which are in high hazard service and have exceeded their projected service life. PO in place for procurement in FY16. PO# SRRA064189	H-Pump Tank 7-10 are the key pump tanks supporting the transfers of waste streams for sludge and salt processing between operating areas and facilities. Failure of one of these pumps will result in the shutdown of DWPF and/or salt processing (ARP/MCU or SWPF). Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
134460	Spare 512S Secondary Filters	Predictive, Preventive, Corrective M&R	1,358												S Area	Critical spare needed for ARP operations at 512-S.	Loss of ARP operations at 512-S would shutdown interim salt processing from ARP/MCU and impact meeting regulatory salt processing commitments and providing tank space to maintain DWPF operations.	Moderate
134455	Emergency Diesel 12 yr overhaul	Predictive, Preventive, Corrective M&R	1,000												S Area	The Emergency Diesel is currently nearing the end of its service life without a major overhaul.	Loss of the DWPF Emergency diesel would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
133527	Melter K-3 Refractory (for Melter 5 - DOE directed)	Predictive, Preventive, Corrective M&R	2,938												S Area	Critical component for future DWPF Melter assembly. DWPF Melters have a long lead (multi-year) procurement and fabrication cycle to ensure spare melters are available.	Loss of the DWPF Melter without an available spare would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
200920	Design and Procure 2 Spare Pumps for H-Pump Tanks 3, 5, and 6	Predictive, Preventive, Corrective M&R	50	1,100											H Area	Critical Spares needed for H-Pump Tanks 3, 5, and 6 which are in high hazard service and have exceeded their projected service life. (M-TTR-H-00046)	Failure of Pump Tank pumps would impact Liquid Waste ability to accept waste streams from ongoing H-Canyon and HB-Line operations. H-Canyon operations would be shutdown.	Moderate
200898	Remove and replace the Tank 4 purge reheater and HEPA filter cabinets	Predictive, Preventive, Corrective M&R	50	500											H Area	System Health reporting for the safety related tank ventilation systems has identified degraded and obsolete components. Replacing the degraded components is a continuation of a multi-year effort to improve the health of the tank ventilation systems. Tank 4 Purge Ventilation system has internal contamination and associated increased dose rates. Tank 4 flammability classification is VERY SLOW.	Replacement of these identified obsolete and/or degraded tank ventilation components provides increased protection to workers and the environment on an old-style tank still in use for interim storage of waste streams. Tank 4 has also been identified as a potential support tank for deployment of Tank Closure Cesium Removal in F-Tank Farm.	Moderate
134457	2 Purge Air compressors and 2 dryers	Predictive, Preventive, Corrective M&R	350	1,100											S Area	System Health reporting has identified that the installed compressors have exceeded their projected service life and should be replaced.	Failure of installed compressors will result in DWPF shutdown. Shutdown of DWPF results in a corresponding shutdown of salt processing (ARP/MCU or SWPF) and results in an extension of the overall LW Life Cycle and impacts meeting regulatory commitments.	Moderate
134455	DWPF Zone 1 Ventilation System (CAEX) Motor Replacement	Predictive, Preventive, Corrective M&R	180	475											S Area	The Zone 1 Exhaust System is the safety system that ensures all contamination is evacuated from the clean areas to the most contaminated areas. The exhausted air is then decontaminated through the sand filter and discharged out of the stack. The Zone 1 Exhaust Ventilation 200hp motors currently installed (445TS (short shaft design)) are obsolete. The new 200hp motor is only manufactured in the 447TS (short shaft design) frame size. Due to the motor frame size dimensional differences a Design Engineering evaluation is required and a design modification is required to install new motors.	Failure of fan motor will result in DWPF shutdown. Shutdown of DWPF results in a corresponding shutdown of salt processing (ARP/MCU or SWPF) and results in an extension of the overall LW Life Cycle.	Moderate
133527	Bubblers/Thermowell (Spare foe DWPF Canyon Vessel)	Predictive, Preventive, Corrective M&R	1,233	500	500	500	500	500	500	500	500	500	500	500	S Area	Periodic replacement every 6 months required due to harsh and high hazard operating environment in the DWPF Canyon processing vessels.	Failure of the process vessel bubblers and/or thermowells will result in DWPF shutdown. Shutdown of DWPF results in a corresponding shutdown of salt processing (ARP/MCU or SWPF) and results in an extension of the overall LW Life Cycle and impacts meeting regulatory commitments.	High

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133527	Melter 4	Predictive, Preventive, Corrective M&R		4,785	215										S Area	Complete melter fabrication. DWPF Melters have a long lead (multi-year) procurement and fabrication cycle to ensure spare melters are available.	Loss of the DWPF Melter without an available spare would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
133527	Replacement melter electrode controls & power	Predictive, Preventive, Corrective M&R		1,400	1,500										S Area	The components of the Melter electrode SCR control circuits are now obsolete and no longer manufactured. With few viable spares available, a new control set-up needs to be designed and procured so that we are prepared when existing spares are exhausted.	Loss of the DWPF Melter electrodes without an available spare would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	High
200939	Fab Type IIIA (A-Length) Telescoping Transfer Jet (TTJ)(SRNS Fab Shop)	Predictive, Preventive, Corrective M&R		500		500		500		500		500		500	H Area	Provided as a critical spare to maintain transfer capabilities from sludge, salt and/or evaporator processing waste tanks. Existing TTJs operate in a high hazard and harsh waste tank environment and need to be periodically replaced.	Depending on which jet fails there is the potential impact to prepare sludge or salt batches, perform waste removal from waste tanks, or support evaporator operations . A corresponding impact to the LW Life Cycle would result and regulatory commitments could be impacted.	Moderate
	East Hill Design - 4 pack and Title III	Predictive, Preventive, Corrective M&R		3,600											H Area	Known massive underground leaks and overall degraded utilities. Multiple system component failures cause the compressors to operate at 99% load or above with no reserve capacity.	Further degradation to underground service lines ultimately could result in a shutdown of the LW System as the Tank Farm East Hill prepares and provides DWPF and Salt Processing feed streams. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	High
	East Hill Installation - 6 pack and 4 pack shallow trenches, Tank 49 trench, 6 pack and initiate 4-Pack	Predictive, Preventive, Corrective M&R		6,422											H Area	Known massive underground leaks and overall degraded utilities. Multiple system component failures cause the compressors to operate at 99% load or above with no reserve capacity.	Further degradation to underground service lines ultimately could result in a shutdown of the LW System as the Tank Farm East Hill prepares and provides DWPF and Salt Processing feed streams. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	High
	East Hill Design/Installation - Title III support/ Install 4-Pack and 2H Condensate Drain Line	Predictive, Preventive, Corrective M&R			9,916										H Area	Known massive underground leaks and overall degraded utilities. Multiple system component failures cause the compressors to operate at 99% load or above with no reserve capacity.	Further degradation to underground service lines ultimately could result in a shutdown of the LW System as the Tank Farm East Hill prepares and provides DWPF and Salt Processing feed streams. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	High
133527	Melter Bellows Assembly #5 replacement	Predictive, Preventive, Corrective M&R			1,000										S Area	Critical spare required for DWPF Melter operations.	Failure of installed bellows without an available spare would result in DWPF shutdown until spare could be procured. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
133527	3 Plant air Compressors (PS)	Predictive, Preventive, Corrective M&R		300	1,200										S Area	System Health reporting has identified that the installed compressors have exceeded their projected service life and should be replaced.	Failure of installed compressors would result in DWPF shut down and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments..	High
133527	Replace 5 obsolete fire panels in DWPF	Predictive, Preventive, Corrective M&R	25	125	125	375									S Area	Fire panels in the main process areas are obsolete and spare parts are not available.	Replacement of these identified obsolete fire panels meets DOE Order requirements for protection of workers.	Moderate
114706	Replace 4 obsolete fire panels in Saltstone	Predictive, Preventive, Corrective M&R	25	125	225										Z Area	The fire alarm panels (FP-PNL-0210, FP-PNL-0704, FP-PNL-0951, and FP-PNL-0205) in buildings 210-Z, 704-Z, 951-Z, and 205-8Z are obsolete and spare parts are no longer available, and need to be replaced. The Halon System in building 210-Z is obsolete and spare parts are no longer available, and needs to be replaced.	Replacement of these identified obsolete fire panels meets DOE Order requirements for protection of workers.	Moderate
133527	Canyon Disposable Pump	Predictive, Preventive, Corrective M&R	200	1,300		1,500		1,500		1,500		1,500		1,500	S Area	Current DWPF process vessel transfer pumps are a high cost (>\$1M), engineered piece of equipment. These pumps have a limited service life due to the highly erosive and harsh environment. When possible, failed pumps are repaired in a repair cell. These repairs result in a dose to workers. Once SWPF begins operations and higher Cesium concentrations streams are processed in DWPF, it is expected that dose levels to the workers for pump repairs may be unacceptable. This scope will provide alternative pumps which are much less expensive and will be disposable.	DWPF process vessel transfer pumps must be maintained as critical spares of DWPF would shutdown. A shutdown of DWPF operations would result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
0926/1344	Replace 11 obsolete fire panels in Tank Farms	Predictive, Preventive, Corrective M&R		1,200	800	400									H Area	Fire panels in the main process areas are obsolete and spare parts are not available.	Replacement of these identified obsolete fire panels meets DOE Order requirements for protection of workers.	Moderate
Various	Purchase 10 ARGOS Personal Contamination Monitors (PCM)	Predictive, Preventive, Corrective M&R		761											H Area	Replaces obsolete Eberline PCM-1B monitors.	Replacement of these identified obsolete and/or degraded PCMs provides increased protection to workers performing high hazard activities in the Tank Farms. PCMs are a radiological contamination control requirement for exiting potential contamination areas. Productivity would be impacted without functional PCMs.	Moderate

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200939	Procure new 3H Evaporator feed pump with diamond seals at Tank 32	Predictive, Preventive, Corrective M&R			1,000	1,000									H Area	The 3H Evaporator feed pump is a long-shafted transfer pump that is nearing the end of its projected service life. A new transfer pump with seals designed to operate at higher temperatures is required as a critical spare.	The 3H Evaporator processes the sludge washing streams from DWPF feed preparation the H-Canyon waste stream. The failure of the 3H Evaporator feed pump without an available spare would result in the inability to prepare sludge feed for DWPF and would shutdown DWPF operations and would shutdown future H-Canyon receipts. This would result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
200951	Purchase 2 Quadvolute Pumps	Predictive, Preventive, Corrective M&R			1,500	1,500				1,500	1,500				H Area	Long-shaft, quadvolute mixing pumps are used in Tanks 40 and 51 (4 in each tank) to prepare sludge feed for DWPF. These pumps operate in high radiological, harsh environment and have a limited service life based on historical operations. Therefore, new pumps must be procured to maintain as critical spares.	Inability to prepare sludge feed for DWPF would shutdown DWPF operations and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate
203399	Vault 4 Stabilization Phase 2	General Plant Projects		50	50	400									Z Area	Vault 4 has been filled with grout from operations of Saltstone but has not been backfilled or capped. Rainwater intrusion has resulted in the contamination of the area surrounding the vault. Phase I efforts addressed many aspects of stabilizing the vault for the longer term but additional stabilization activities must be performed.	Vault 4 stabilization efforts must be completed to ensure long term radiological protection of workers and the environment until the time that the vault is permanently capped.	Moderate
133527	Mercury cell refurbishment	Predictive, Preventive, Corrective M&R			800										S Area	Mercury contained in the sludge waste volatilizes in the DWPF melter. Because the Mercury Recovery Cell is not operational, all mercury returns to the Tank Farm with the DWPF Recycle stream. Therefore, higher concentrations of mercury are being seen in various Tank Farm processing operations. The inability to remove mercury results in H-Tank Farm processing impacts and Industrial Hygiene concerns to the workers.	Return of the Mercury Cell to operation is required to not impact continued Tank Farm operations and to address Industrial Hygiene concerns for the workers.	Moderate
114706	210 Lower roof replacement	Predictive, Preventive, Corrective M&R		1,200											Z Area	Existing roof is nearing end of projected service life and require replacement.	210-Z contains a contaminated processing area for supporting salt processing stream disposition. Leaking roof could impact processing due to contamination issues resulting from rainwater. Shutdown of salt processing would result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
114706	210 upper roof replacement	Predictive, Preventive, Corrective M&R				1,500									Z Area	Existing roof is nearing end of projected service life and require replacement.	210-Z contains a contaminated processing area for supporting salt processing stream disposition. Leaking roof could impact processing due to contamination issues resulting from rainwater. Shutdown of salt processing would result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
	2 Melter Storage Boxes	General Plant Projects				1,500					1,500				S Area	Failed Melters cannot be removed from DWPF without an approved container for transportation or storage until place in Failed Melter Storage Vault.	Inability to remove a failed Melter from DWPF so that a spare Melter can be installed would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
133527	Canister Decontamination air (CDA) compressor	Predictive, Preventive, Corrective M&R					700								S Area	Required for canister decontamination process.	If canisters can not be decontaminated then shut down DWPF.	Low
133527	Melter 5	Predictive, Preventive, Corrective M&R							3,000	15,000	9,000	9,000			S Area	Critical spare for DWPF. DWPF Melters have a long lead (multi-year) procurement and fabrication cycle to ensure spare melters are available.	Loss of the DWPF Melter without an available spare would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
Various	Purchase 10 additional ARGOS Personal Contamination Monitors (PCM)	Predictive, Preventive, Corrective M&R			761										H Area	Replaces remaining obsolete Eberline PCM-1B monitors.	Replacement of these identified obsolete and/or degraded PCMs provides increased protection to workers performing high hazard activities in the Tank Farms. PCMs are a radiological contamination control requirement for exiting potential contamination areas. Productivity would be impacted without functional PCMs.	Moderate
133527	Spare SME vessel	Predictive, Preventive, Corrective M&R			1,000	3,000									S Area	Critical spare for DWPF. The SME processing vessel has a limited service life due to the highly erosive waste stream handled in the tank. It has a long lead (multi-year) procurement and fabrication cycle.	Loss of the SME vessel without an available spare would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Moderate

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4482/1125	Roof replacement for HDB-8H and 704-56H	Predictive, Preventive, Corrective M&R			370	411										S Area	Existing roofs are nearing end of projected service life and require replacement.	The HDB-8 facility is the interarea line facility supporting transfers between H-Area, F-Area and S-Area. Leaking roof could the safe and intended function of this facility. This would impact or shutdown sludge and salt processing. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
	melter 3 and 4 storage bldg	General Plant Projects				500	2,000									S Area	DWPF Melters have a long lead (multi-year) procurement and fabrication cycle to ensure spare melters are available. Spare melters must be stored in a controlled environment that ensures their availability to be used when needed.	Loss of the DWPF Melter without an available spare would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
Various	Purchase 7 (includes 2 spares) ARGOS Personal Contamination Monitors (PCM)	Predictive, Preventive, Corrective M&R				533										F Area	Replaces remaining obsolete Eberline PCM-1B monitors	Replacement of these identified obsolete and/or degraded PCMs provides increased protection to workers performing high hazard activities in the Tank Farms. PCMs are a radiological contamination control requirement for exiting potential contamination areas. Productivity would be impacted without functional PCMs.	Low
132346	250-S (GWSB1) roof replacement	Predictive, Preventive, Corrective M&R				1,600										S Area	Existing roof is nearing end of projected service life and require replacement.	250-S is the high-level DWPF canister interim storage facility. Leaking roof could impact safe storage of these canisters resulting from rainwater. There is no alternative storage facility for the canisters (other than GWSB2 which is supporting current DWPF operations).	Low
114706	Procure spare Saltstone Mixer	Predictive, Preventive, Corrective M&R					1,300									Z Area	This is a critical spare. The Saltstone mixer has a limited service life due to the highly erosive material added in the grout material.	Shutdown of salt processing disposition via Saltstone would result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
209897	Repair U2 nozzle at 3H Evaporator	Predictive, Preventive, Corrective M&R					500									H Area	The 3H Evaporator is currently limited from using higher steam flows due to an eroded 3H nozzle. Operating at higher steam flows can enable the ability to more efficiently recover tank space and support sludge washing receipts.	The LW System continues to be impacted by limited tank space. Operation of the 3H at higher steam flows could improve sludge processing support efficiency and provide tank space to support all LW processing activities.	Low
133527	DWPF 221S Railroad Well Airlock	General Plant Projects						2,000	1,000							S Area	Air flow reversals occur at the DWPF 221S Railroad well airlock inner rollup door when door is raised above 8 feet. Improvements to this airlock are required to provide increase radiological contamination protection to workers and to minimize process impacts resulting from a contamination event.	Improvements to the 221S Railroad well airlock provides increased protection to workers performing high hazard activities and minimizes the potential for a contamination event. DWPF productivity can be impacted due to the current airlock configuration.	Low
209897	Spare evaporator pot	Predictive, Preventive, Corrective M&R								2,000	3,000					H Area	This is a critical spare. Based on historical performance, the evaporator pots have a limited service life primarily due to failure of the steam bundle.	The failure of an Evaporator Pot without an available spare would result in the inability to prepare sludge feed for DWPF and would shutdown DWPF operations and would shutdown future H-Canyon receipts. This would result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low
200937	Add Tank 29 as a 3H Evaporator receiver tank	General Plant Projects										5,000				H Area	The 3H Evaporator operations is currently limited due to insufficient receipt tank capacity. Adding another receipt tank can enable the ability to more efficiently recover tank space and support sludge washing receipts.	The LW System continues to be impacted by limited tank space. Operation of the 3H at higher efficiency could improve sludge processing support efficiency and provide tank space to support all LW processing activities.	Low
200938	Add cooling tubes on Tank 30 (3H receiver tank)	General Plant Projects											6,000			H Area	The 3H Evaporator operations is currently limited due to insufficient cooling in the feed and receipt tanks. Providing additional cooling capacity in the receipt tank can enable the ability to more efficiently recover tank space and support sludge washing receipts.	The LW System continues to be impacted by limited tank space. Operation of the 3H at higher efficiency could improve sludge processing support efficiency and provide tank space to support all LW processing activities.	Low
200939	Add cooling tubes on Tank 32	General Plant Projects												6,000		H Area	The 3H Evaporator operations is currently limited due to insufficient cooling in the feed and receipt tanks. Providing additional cooling capacity in the feed tank can enable the ability to more efficiently recover tank space and support sludge washing receipts.	The LW System continues to be impacted by limited tank space. Operation of the 3H at higher efficiency could improve sludge processing support efficiency and provide tank space to support all LW processing activities.	Low
133108	Failed Equipment Storage Vault	General Plant Projects									2,500	1,000				S Area	Required to store failed Melter when taken out of service. Failed Melters cannot be removed from DWPF without an approved container.	Inability to remove a failed Melter from DWPF so that a spare Melter can be installed would shutdown DWPF and result in a corresponding shutdown of all other processing in the LW System. Shutdown would result in a corresponding increase to the LW Life Cycle and impact meeting regulatory commitments.	Low