THE NATION'S URANIUM PROCESSING FACILITY

UPF JOB HAZARD ANALYSIS

My signature on the corresponding CFN-1251, UPF Construction Attendance Sheet, indicates that I have read the JHA and have received answers to any questions I had relative to the JHA. My signature further indicates my willingness to comply with the provisions and requirements of the JHA.

JHA NO.:	**JHA-00764**	**REV:**	**0**	**ISSUE DATE:**	**3-25-2025**
JHA TITLE:	**Working Around Energized Cables**	**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:**	**Site-wide**

Activity	Sub-Activity	Hazard	Control
Working Above Energized Cables in Cable Tray	Use of Hand, Air, and Electric Tools AND Material Handling	Dropped objects (tools) onto energized cable systems – arc flash / electrical shock	When working above low voltage (<1000V) cable trays, the following is required: • All hand and power tools used at height must be tethered with a properly rated tool tether system or other approved means, where a dropped object potential exists. Such tethers must be properly engineered and rated for their weight to prevent the tethered item from falling and prevent the tether from failing • Tool tethers must be secured to an anchorage capable of withstanding the weight attached to it. This applies to in-use tools and tools left unattended where a fall from height is possible • Where tether points are to be installed on tools, they must be rated for purpose and installed pursuant to manufacturer's instructions by trained personnel (i.e., tethering advisor) • Tool lanyards must be rated for the tool to be secured and compatible with both the tether point and anchor point • Tool tether system components must not be used as part of a personnel fall protection system • Users of tool tether systems shall receive training on the system and shall be responsible for inspection of all system components prior to each use • Any component which is damaged or defective shall be removed from service and stored in controlled area managed by the ES&H department or appointed tethering advisor, until destroyed or sent for repair by the manufacturer • When the utilization of tether systems is infeasible (e.g., scaffold assembly and disassembly, installation of electrical components), then additional controls (e.g., danger barricades, physical covers for cable trays, positive control of materials such as grip-twist-confirm methods) must be put in place to prevent dropped objects and damage to energized cables When working above medium voltage (>1000V) cable trays, in addition to the above requirements, the following is also required: • Physical covers must be installed to provide physical protection to energized cable trays

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Activity	Sub-Activity	Hazard	Control
			• ERAT shall be performed to determine the type of physical covers (e.g., fire resistant blankets, fire-retardant wood) and the area in need of protection considering the specific scope of work
	Use of UZAPs above energized cable trays	Dropped objects (tools) onto energized cable systems – arc flash / electrical shock	When work is performed on UZAPs above energized cable trays, the following is required: • Verify that all scaffold components (e.g., guardrail systems, toe-boards, debris netting) are in place and in good condition (e.g., no gaps or holes in debris netting, no missing toe-boards) • Verify that all UZAP penetrations and gaps around structures are properly protected to prevent dropped objects prior to be staring work • Do not perform work beyond the parameter of the UZAP including the area (e.g., close proximity to the guardrail system) where tools and materials can be mishandled causing fall to lower elevation • Utilize the FLHA process or when required the Dropped Object Prevention Checklist to document the verification of the items above
Working Adjacent to Energized Cables in Cable Tray	Working from scaffolds, ladders or MEWPs adjacent to energized cable trays	Unintentional interaction with energized cables by running into or touching cables with ladders / personnel lifts, leaning into or dropping tools / equipment into cable tray – arc flash / shock hazard	When working adjacent to energized cable trays, the following is required: • Tether and/or properly secure (e.g., tool pouches) all tools, materials and PPE that may come in contact with the energized cable tray in the event of the item being mishandled • Do not come in contact with the cable tray in any manner including but not limited to: walking, stepping or sitting on the cable tray; utilizing the cable tray to stage tools and materials; installing commodity passing through the cable tray • Keep all sharp objects, hand and power tools away from the cable tray in a manner where inadvertent contact is not possible • Work activities that may involve flying sparks, slag, painting (overspray), removal of fire proofing, use of powder actuated tools (potential misfires) within 3 feet of the cable tray should be evaluated by the Superintendent prior to initiating work. If it is determined that protection for the cable / cable tray is required, and ERAT shall be initiated. • Utilize the use of spotters and / or hard barricades around vertical trays with energized cables to prevent unintentional contact

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JHA TITLE:	**Working Around Energized Cables**	**WORK PACKAGE NUMBER:**	**N/A**	**SPECIFIC LOCATION:**	**Site-wide**

Activity	Sub-Activity	Hazard	Control
Working in tray with energized / Startup owned cables >50V	Pulling cable, installing tray barriers, installing tray splice plates, adjusting / securing cables in tray, connecting conduit to tray, connecting ground cable to tray, etc.	Damaging cable jacket / insulation on energized cable systems – arc flash / electrical shock	**IF WORKING ON OR IN TRAY SECTIONS THAT CONTAIN ENERGIZED CABLE, THIS SECTION APPLIES. OTHERWISE, ONLY THE ABOVE SECTIONS APPLY** Planned work that involves working in or on an energized cable tray system, or any cable tray system with cables under the care, custody, and control of the Startup organization, SHALL be evaluated using the UPF Electrical Hazard Risk Assessment & Testing Form (ERAT) in accordance with Y17-95-64-880, Electrical Safety in the Workplace, and a Startup Work Authorization SHALL be generated in accordance with Y15-95-926, UPF Work Authorization. These cables / tray sections are visually identified in accordance with Y17-95-64-880, Section 3.4. When working in or on energized cable trays the following is required: • Only use approved nonconductive pulling adds (i.e., fiber glass fish tap / pull sticks) • No metal cable rollers are allowed to be installed on energized tray • Only manual cable pulling is allowed • Verify all edge guards are installed to protect cables during pulling activities. • Keep all sharp objects, hand and power tools away from the cable tray in a manner where inadvertent contact is not possible • **Implement all work controls detailed in the applicable ERAT, WA, and EIP**

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Ensure a new corresponding CFN-1251, *UPF Construction Attendance Sheet*, is signed and inserted in the CWP to document JHA briefing.					
PREPARER:		Nicholas Prewitt		03/25/25	
		Printed Name/Signature		Date	
APPROVAL:					
ES&H:		Anton Panev		03/25/25	
		Printed Name/Signature		Date	
SITE MANAGER: (DOA-CM-801768-A214)		Michael Ring		03/26/25	
		Printed Name/Signature		Date	