

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-00718 | REV: | 0 | ISSUE DATE: | 11-22-23 |
|-------------------------------------|----------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------|-----------------|
| JHA TITLE: | | Excavation and HDPE Piping | WORK PACKAGE NUMBER: | N/A | SPECIFIC LOCATION: | N/A |
| Activity | Sub-Activity | Hazard | Control | | | |
| Excavation (Life Critical Activity) | General Requirements | Cave-in | · Never access an excavation equal to or deeper than 4 feet unless the following two conditions are met: | | | |
| | | Hazardous Atmosphere | (1) the excavation has been properly sloped, benched, or shored and | | | |
| | | Property Damage | (2) an appropriate excavation permit has been issued | | | |
| | | Improper Hazard Communication | · Never enter, or direct others to enter, an excavation or trench without a prior, documented, formal assessment by a Competent Person for excavation and trenching | | | |
| | | Inadequate Access/Egress | · Never perform excavation or trenching work without the onsite presence of a Competent Person for excavation and trenching | | | |
| | | | · Ensure adequate access and egress, such as stairs and ladders, are provided within 25 feet of each worker in all trenches that are 4 feet or greater in depth. Follow the excavation permit | | | |
| | | | · Protective measures (i.e., sloping, benching, trench boxes) must be installed in all excavations over four (4) feet in depth | | | |
| | | | · Excavation hazards are controlled through the completion and use of an excavation permit per CFN-1030, <i>Site Excavation Notification</i> . Form CFN-1031, <i>Daily Excavation/Trench Safety Report</i> , is used to track day to day changes to the excavation area as well as access to the area. | | | |
| | | | · Excavations and trenches shall be appropriately identified with signs, warnings, and barricades | | | |
| | | | · Excavation barricades, made of semi-permanent material (i.e., temporary "orange" fencing), must be installed six (6) feet from the edge of an excavation whenever possible. If the six (6) feet cannot be maintained, then a fixed hard barricade system must be installed. Excavations across or next to a roadway requires the use of barriers including semi-permanent concrete vehicle barriers (CVB) or orange Jersey barriers, and will include roadway signs or equivalent to alert vehicle traffic when personnel are working in or adjacent to the roadway. | | | |

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| | | | Follow the requirements of the excavation permit with regards to potholing near existing utilities. | | | |
| | | | · Review the CFN-1031, <i>Daily Excavation/Trench Safety Report</i> , completed by the Competent Person and inspect the area to verify safe entry into excavation boundary | | | |
| | | | · Use only established excavation access points and walkways. Verify the work being performed does not create a hazardous atmosphere (e.g., shielded welding, use of gas-powered equipment). Contact Industrial Hygiene for further evaluation | | | |
| | | | · When using the jumping jack compactor or pneumatic pogo stick compactor metatarsal guards are required. | | | |
| Excavation (Life Critical Activity) | Backfill Activities | Crush | · When using the jumping jack compactor or pneumatic pogo stick compactor metatarsal guards are required | | | |
| | | Hazardous Atmosphere | · Verify the equipment in use does not create a hazardous atmosphere. Contact Industrial Hygiene for further evaluation | | | |
| Excavation (Life Critical Activity) | Safety Precautions and Requirements | Cave-in | · Appropriately identifying excavations and trenches with signs, warnings, and barricades and, where required, have a barricade around the entire perimeter with designated access points. A Daily Excavation Inspection sign-off tag (refer to Appendix C) will be clearly posted at each designated access point | | | |
| | | Improper Hazard Communication | · Removing spoil material and any other material the proper distance away from the edge of excavations. Spoils and any other material storage must be kept at least 2 feet (0.6 meters) away from the excavation edge. If this is not completed, then retaining devices must be utilized to prevent materials or equipment from falling or rolling into the excavations. A combination of both methods may be used, as required | | | |
| | | Loss of Load | · Ensuring no employee is permitted underneath loads handled by lifting or digging equipment, and no employee who is inside the barricaded excavation stands within the swing radius or blind spots of operating equipment | | | |

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| | | Moving Equipment | · Avoiding pedestrian traffic and/or walking around or behind excavation. ALL ground personnel shall establish positive eye contact with equipment operators and receive positive acknowledgement back from the operator before moving into the path of equipment | | | |
| | | | · Utilizing a warning system (e.g., barricades, spotter, restraining device) when mobile equipment must be operated adjacent to an excavation and the operator does not have a clear and direct view of the edge of the excavation | | | |
| Excavation (Life Critical Activity) | Clearing, Grubbing, and Scrubbing | Fire | DO NOT use burning as a means of clearing or disposing of material. | | | |
| Excavation (Life Critical Activity) | Excavation | Inadequate Access/Egress | · All excavations shall be provided with a suitable means of access and egress in the form of ramps, stairways, and/or ladders | | | |
| | | Hazardous Material | · If hazardous or unknown materials are suspected and/or encountered, then the work shall be discontinued until a qualified individual or group (e.g., environmental compliance lead, Health Physics/Radiation Protection) can identify the suspect material and ensure it is safe to continue working. If it is determined that the material is hazardous, then all applicable contract requirements and jurisdictional codes and standards must be followed in order to handle these materials. The area shall be barricaded with red barricade tape and danger tags meeting requirements of UPF- CP-214, <i>Barricades and Signs</i> , prior to the end of shift. After suspected hazardous material has been identified as "hazard free" by a qualified person, the RS shall contact the CNS ES&H Oversight Lead for further instruction regarding disposition of legacy material | | | |
| | | Legacy Material | · Suspected hazardous material shall be barricaded or segregated (e.g., bagged and tagged appropriately) prior to end of shift | | | |



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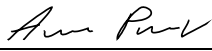
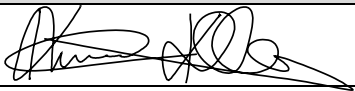

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| | | Environmental | <ul style="list-style-type: none"> Ensure excavations are free from storm water. If necessary, pump and reroute the storm water. Divert surface drainage from surrounding areas and away from the excavations. Discharge storm water in a manner that does not produce erosion and is consistent with disposal measures or requirements identified in the SWPPP or other applicable jurisdictional regulations or permits. | | | |
| HDPE Piping - Pipe Fusion Activities | General Requirements | Improper Use of Tools/Equipment | <ul style="list-style-type: none"> Only trained and authorized personnel shall operate pipe fusion welding machine | | | |
| | | Rotating Equipment | <ul style="list-style-type: none"> Remove or secure all loose-fitting clothing, etc. around moving machine parts | | | |
| | | Burn | <ul style="list-style-type: none"> Wear heat resistant gloves as listed on ML-SH-801768-A003, <i>UPF Glove Matrix</i>. | | | |



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| Ensure a new corresponding CFN-1251, <i>UPF Construction Attendance Sheet</i> , is signed and inserted in the CWP to document JHA briefing. | | | | | |
| PREPARER: | <u>Anton R. Panev</u>  | | | <u>11-22-23</u> | |
| | Printed Name/Signature | | | Date | |
| APPROVAL: | | | | | |
| ES&H: | <u>Kieran S. Kelly</u>  | | | <u>11-22-23</u> | |
| | Printed Name/Signature | | | Date | |
| SITE MANAGER: (COI-CM-801768-A087) | <u>Matthew W. Schmid</u>  | | | <u>11-22-23</u> | |
| | Printed Name/Signature | | | Date | |