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|  | | | **Job Hazard Analysis (JHA)** | | | | | **Safe Job Procedure** |
| **Identified Task:** | | | | | **Priority Ranking:**  **Severity:** 1. Imminent Danger 2. Serious 3. Minor  4. Not Applicable  **Probability:** A. Probable B. Reasonably Probable  C. Remote D. Extremely Remote | | | **Severity (S) + Probability (P) = Priority Ranking (PR)**  For example,  Working at a height of 4 meters without fall protection.  S (**1**) +P (**A**) =PR (**1A**) |
| Installing a tank farm crossing | | | | |
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| **Tools/Equipment Required:** | | | | | **Material Required:** | | | Date: January 9th 2015  Page:\_\_1\_\_\_ of \_\_\_2\_\_ |
| **Excavator, bucket,** | | | | | **Metal culvert that all cords and hoes goes through** | | |
|  | | | | |  | | |
| **Steps** | **Sequence of Steps** | **Potential Incidents or Hazards** | | **Priority** | **Controls in Place**  **Identify Controls or Combination of Controls That Are in Place** | | | **Instructions:**  The Job Hazard Analysis must be completed prior to the development of the Safe Job Procedure. |
|  |  |  | |  | **Engineer** | **Administration** | **PPE** |  |
| 1 | Do a pre-trip on excavator. Start and let warm up for 15 minutes | Slips and trips  Other equipment and people working nearby. | | 3b |  | **SWP/SJP** |  | Use 3 point contact when entering and exiting cab.  Wear traffic vest when working outside of the cab. |
| 2 | Make sure the location of the crossing is not going to block critical operations | People working nearby. | | 2b |  | **SWP** |  | Make sure to keep all non-essential personnel away from work area |
| 3 | Make sure all cords and hoses are running through the ramp and that the ramp is not damaged | Hoses could rupture if pinched in ramp. Electrical cords could short out and even cause the ramp to be electrically charged | | 2c |  | **SWP/SJP** |  | Make sure all hoses are free when you tug on them. Do the same thing with all cords. |
| 4 | Place some weight on top of the ramp before you start to place dirt on both sides | Weight if too heavy can crush hoses and cords under ramp | | 2b |  | **SWP** |  | After placing the weight on top of the ramp it is important to make sure hoses and cords are still free and not being pinched by the weight. |
| 5 | Get dirt that is unfrozen for this task. Dig into a pile with bucket until you find unfrozen drit. | Lumps of dirt rolling and hitting excavator | | 3b |  | **SWP** |  | Make sure to move all large frozen lumps to a secure place where they can’t roll and hit excavator. Make sure all non-essential personnel are kept clear of this area while you are getting unfrozen soil. |
| 6 | Pile material gently on both sides of the ramp so it can’t move either way. | Other personnel in area. Other equipment in work zone. | | 3c |  | **SWP** |  | Keep all non-essential personnel and equipment away from work area. You will be done soon enough. |
| 7 | Pack the earth with tracks on both sides of the ramp to make it secure. | Track hoe could slide off ramp. | | 2c |  | **SWP** |  | When climbing up and down the ramp use the bucket to stabilize track hoe so it does not slip or roll over. |
| 8 | Put weight you set on ramp away and park track hoe | Weight could slip while you are lifting it. Slips and trips when getting out of machine | | 2c |  | **SWP** |  | Use a sling if weight is awkward to lift and might slip. Always use 3 point contact when exiting cab of excavator. Wear a traffic vest when working outside of the cab. |
| **Developed by: Blake Cowan** | | | | | | **Reviewed by: Dylan Gardner** | | |
| **Revised by:** | | | | | | **Approved by: Dylan Gardner** | | |
| **Comments:** | | | | | | | | |
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