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| **Asset Identifiers:**  22723  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Created by & Date:**  Rick Davis, 8-17-2021  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Revised by & Date:** | **Facility**:  Ankeny Pump Station | **Asset Location**:  Lower level drywell |
| **Asset Description:**  Sewage Pump #5, Loop/Index500  Pump with electric acuator | |

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| **SYMBOL** | **ENERGY TYPE** | **X** | **MAGNITUDE** |  | **SYMBOL** | **ENERGY TYPE** | **X** | **MAGNITUDE** |
| C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\8325A1BD.tmp | **Chemical** |  |  |  | C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5561DF5F.tmp | **Electrical** | **X** | **Electrocution** |
|  | **Mechanical** | **X** | **Accidental Start up** |  | C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5E800B1B.tmp | **Hydraulic** | **X** | **Engulfment** |
| Image result for thermal energy emoji | **Thermal** |  |  |  | Image result for pneumatic energy emoji | **Pneumatic** |  |  |
| C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\1B31F459.tmp | **RF Radiation** |  |  | Image result for graviational energy emoji | **Gravitational** |  |  |
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| **Check** | **Lockout Application Process** | **Check** | **Lockout Removal Process** |
|  | Notify affected Personnel. |  | Ensure all tools and items have been removed. |
|  | Properly shut down unit. |  | Confirm all employees are safely located. |
|  | Isolate all energy sources. |  | Verify controls are in neutral. |
|  | Apply all lockout devices |  | Remove lockout devices and re-energize the unit. |
|  | Verify total de-energization of all sources. |  | Notify affected employees servicing is completed. |

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| **#** | **Energy** | **Lockout Location** | **Method** | **Type of Device** |
| **1** | C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5561DF5F.tmp | MCC | Open breaker at MCC | Tree, tag, & lock |
| **2** | C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5E800B1B.tmp | Suction valve  Lower level | Close valve at local control for actuator. When closed place selector in off position. | Tree, tag, & lock |
| **3** | C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5E800B1B.tmp | Discharge valve  Lower level | Close valve at local control for actuator. When closed place selector in off position. | Tree, tag, & lock |
| **4** | C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5E800B1B.tmp | Seal water | Close seal water valve | Tag |
| **5** | C:\Users\deazleym\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5E800B1B.tmp | Drain valve | Open drain valve bleed off system pressure | N/A |