**Operator and General Audit Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Company:** | **Name:** | | | |
|  | | | |
| **Mailing and Official Address (If different):** | | | |
|  | | | |
| **Doing Business as or Affiliation:** | | | |
|  | | | |
| **PHMSA Operator Identification (OPID) No.** | |  | | |
| **LA DNR Pipeline Number (PL Number)** | |  | | |
| **Unit ID Number/ Unit Name inspected** | |  | | |
| **Operator’s Local Address:** |  | | **Lead Inspector:** |  |
| **Attending Inspectors:** |  |
| **Dates of Inspection:** |  |

**Company Representatives Participating**

|  |  |
| --- | --- |
| **Key Persons** | **Name / Title / Mailing Address / Phone / Email** |
| **Primary Operator or Representative Interviewed** |  |
| **Others Interviewed, Providing Information or Present during the Inspection** |  |
|  |
|  |

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**Observations – CRM, SCADA, and Leak Detection – Control Room Management**

**1. Control Center**Does the control center have the required capabilities and characteristics, and does it monitor components and buildings? (Observation)

**193.2441(a), 193.2441(b), 193.2441(c), 193.2441(d), 193.2441(e), 193.2507**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Emergency Preparedness and Response – Emergency Response Liquids**

**1. Personnel Protective Clothing and Equipment**Is emergency protective clothing and equipment at the locations and of the type specified? (Observation)

**193.2511(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Protection from Thermal Radiation**Is a means of protection from thermal radiation or a means of escape provided at applicable fixed duty locations? (Observation)

**193.2511(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. First-Aid Material Availability**Is first aid material readily available and clearly marked? (Observation)

**193.2511(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Facilities & Storage – Facilities General**

**1. ESD - Source Shutdown / Isolation**Do field observations confirm the emergency shutdown system (ESD) has been installed that meets the requirements of NFPA 59A (2001), Section 9.2, for source shutoff and isolation? (Observation)

**193.2801, NFPA 59A Section 9.2, 193.2301, 193.2303**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Flammable Gas, Low Temperature and Fire Detection**Do field observations confirm that the flammable gas and fire detection systems meet the requirements of NFPA 59A (2001), Section 9.3, by location performance and alarm announcement? (Observation)

**193.2801, NFPA 59A Section 9.3, 193.2303**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Fire Water Supply and Delivery**Do field observations confirm the fire water supply and delivery system meet the requirements of NFPA 59A (2001), Section 9.4? (Observation)

**193.2801, NFPA 59A Section 9.4, 193.2303**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Fire Protection Equipment**Do field observations confirm the staging of fire protection equipment meets the requirements of NFPA 59A (2001), Section 9.5? (Observation)

**193.2801, 193.2303, NFPA 59A Section 9.5**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Protective Clothing**Is protective clothing available as required by NFPA 59A, Section 9.7.1 and 9.7.2? (Observation)

**193.2801, NFPA 59A Section 9.7**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Entry into Confined or Hazardous Space**Are written practices and procedures adequately implemented for the entry of personnel into confined or hazardous spaces? (Observation)

**193.2801, NFPA 59A Section 9.7**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Availability of Gas Detectors**Are at least three portable gas detectors readily available at the plant in accordance with NFPA 59A, Section 9.7.4? (Observation)

**193.2801, NFPA 59A Sections 9.7**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**8. Enclosure Protection and Construction**Do field observations verify applicable facilities are surrounded by adequate protective enclosures? (Observation)

**193.2905(a), 193.2905(b), 193.2905(c), 193.2905(d), 193.2905(e), 193.2907(a), 193.2907(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**9. Security Communications**Are there adequate security communication capabilities? (Observation)

**193.2909(a), 193.2909(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**10. Security Lighting**Do field observations verify adequate security lighting is provided, where applicable? (Observation)

**193.2911, 193.2303**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**11. Security Monitoring**Do field observations verify security monitoring meets the requirements applicable to the facility? (Observation)

**193.2913, 193.2303, 193.2905(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**12. Security System Alternate Source of Power**Do field observations verify there is an alternate (back-up) power source for security lighting and security monitoring and warning systems? (Observation)

**193.2915, 193.2445(a), 193.2445(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**13. Sources of Power**Are there at least two sources of power for communication, emergency lighting, and firefighting systems? (Observation)

**193.2445(a), 193.2445(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**14. Warning Signs**Do field observations verify warning signs are placed about the protective enclosure such that they can be seen from 100 ft at night? (Observation)

**193.2917(a), 193.2907(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Facilities & Storage – Tanks and Storage**

**1. LNG Storage Tanks**Do LNG storage tanks appear structurally sound and safe? (Observation)

**193.2623(a), 193.2623(b), 193.2623(c), 193.2623(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Maintenance & Operations – Liquid Pipeline Maintenance**

**1. Control of Foreign Material and Debris**Is the facility free of foreign material or debris that presents a fire hazard? (Observation)

**193.2607(a) (193.2607(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Physical Support Systems**Are foundations and support systems structurally sound? (Observation)

**193.2609**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Maintain Access Routes**Are access routes for movement of fire control equipment clear of snow and other obstacles? (Observation)

**193.2611(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Testing Auxiliary Power Sources**Are monthly or annual tests performed as required by the process? (Observation)

**193.2613**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Control Systems**Are control systems operating within design limits? (Observation)

**193.2619(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Transfer Hoses**Are transfer hoses inspected before each use? (Observation)

**193.2621(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Maintenance & Operations – Liquid Pipeline Operations**

**1. Monitoring Operations - Buildings and Components**Are operating components and buildings monitored for leaks, fire, and malfunctions that could cause a hazardous condition? (Observation)

**193.2507**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Startup and Shutdown**Is performance testing being conducted to demonstrate that components will operate satisfactorily in service during startup and shutdown? (Observation)

**193.2503(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Purging and Inerting**Is purging of components that can accumulate significant amounts of combustible mixture conducted in accordance with procedures? (Observation)

**193.2517**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Cool down of Components**Do field observations confirm leak checks were performed on components subject to cryogenic temperatures following stabilization? (Observation)

**193.2505(b), 193.2301, 193.2303**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Transfer of LNG**Are LNG transfers conducted in accordance with the process? (Observation)

**193.2513(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Cargo Transfer Process**Are cargo transfers conducted in accordance with the process? (Observation)

**193.2513(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Communication Systems**Does the communication system meet all of the requirements of 193.2519? (Observation)

**193.2519(a), 193.2519(b), 193.2519(c), 193.2445(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Time Dependent Threats – External Corrosion - Atmospheric**

**1. Monitoring for Atmospheric Corrosion**Are certain components subject to atmospheric corrosive attack coated or jacketed? (Observation)

**193.2635(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Time Dependent Threats – External Corrosion – Cathodic Protection**

**1. Monitoring for External Corrosion**For certain buried or submerged components, does the cathodic protection meet the requirements of 192.463? (Observation)

**193.2635(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**21. Rectifiers, Bonds, Diodes and Reverse Current Switches**Are rectifiers, interference bonds, diodes, and reverse current switches properly maintained and are they functioning properly? (Observation)

**193.2635(b), 193.2635(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Training and Qualification – Operator Qualification**

**1. Qualifications and Training of Operations and Maintenance Personnel**Do individuals conducting operations and maintenance of components demonstrate their capability to perform their assigned functions? (Observation)

**193.2707(a), 193.2707(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Qualifications and Training of Corrosion Control Personnel**Do individuals conducting, or directing, corrosion control activities demonstrate adequate skills and knowledge? (Observation)

**193.2707(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Observations – Training and Qualification – Training of Personnel**

**1. Plant Fire Drills**Do personnel demonstrate adequate fire protection skills during a fire drill? (Observation)

**193.2717(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures - Emergency Preparedness and Response – Emergency Response Liquids**

1. **Responding to Non-Fire Emergencies**

Does the process identify the types and locations of non-fire emergencies that may be expected to occur? (Procedure)

**193.2017(a), 193.2509(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

1. **Responding to Controllable Emergencies**

Do emergency procedures contain provisions for responding to controllable emergencies? (Procedure)

**193.2017(a), 193.2509(b)(1)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Responding to Uncontrollable Emergencies**Do emergency procedures contain provisions for responding to uncontrollable emergencies? (Procedure)

**193.2017(a), 193.2509(b)(2)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Coordination of Evacuation Plans**Do emergency procedures require a process for coordinating evacuation plans with local officials? (Procedure)

**193.2017(a), 193.2509(b)(3)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Co-operating on Mutual Assistance**Do emergency procedures require cooperating with local officials in evacuations and emergencies requiring mutual assistance? (Procedure)

**193.2017(a), 193.2509(b)(4)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Emergency Personnel Protective Clothing and Equipment**Does the process require that protective clothing and equipment be provided to personnel performing emergency response duties? (Procedure)

**193.2017(a), 193.2509(b)(1), 193.2511(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Protection from Thermal Radiation**Does the process require that personnel on duty at fixed locations be provided protection from thermal radiation or a means of escape? (Procedure)

**193.2017(a), 193.2511(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**8. First-aid Material Availability**Does the process require that first-aid material be readily available and properly marked? (Procedure)

**193.2511(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Facilities & Storage – Facilities General**

**1. Entering Confined or Hazardous Space**Do the written practices and procedures for the entry of personnel into confined or hazardous space meet the requirements of NFPA 59A, Section 9.7.3? (Procedure)

**193.2017(a), 193.2801**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Venting in Case of Emergency**Does the process for depressurizing the plant or venting LNG in the event of an emergency meet the requirements of NFPA 59A, Section 9.9.1? (Procedure)

**193.2017(a), 193.2801, NFPA 59A Sections 9.7**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Taking an LNG Container Out of Service**Does the process for taking an LNG container out of service meet the requirements of NFPA 59A, Section 9.9.2? (Procedure)

**193.2017(a), 193.2801**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Security Procedures**Is the security process adequate? (Procedure)

**193.2017(a), 193.2903(a), 193.2903(b), 193.2903(c), 193.2903(d), 193.2903(e), 193.2903(f), 193.2903(g)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Security Communication**Does the process require an effective means of security communications? (Procedure)

**193.2909(a), 193.2909(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Security Lighting**Does the process require adequate facility security lighting be provided? (Procedure)

**193.2911, 193.2017(a), 193.2017(b), 193.2017(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Security Monitoring**Does the process for security monitoring meet requirements for the facility? (Procedure)

**193.2913 (193.2017(a))**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**8. Security System Alternate Source of Power**Does the process require an adequate alternate (back-up) source of power for security lighting, and security monitoring and warning systems? (Procedure)

**193.2915, 193.2445(a), 193.2445(b), 193.2017(a), 193.2017(b), 193.2017(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**9. Sources of Power**Does the process require at least two sources of power for communication, emergency lighting, and firefighting systems? (Procedure)

**193.2445(a), 193.2445(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**10. Warning Signs**Does the process require the placement of warning signs along the protective enclosure? (Procedure)

**193.2017(a), 193.2917(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Facilities & Storage – Tanks and Storage**

**1. LNG Storage Tanks**Does the process require that LNG storage tanks be inspected or tested to verify tank safety and structural integrity? (Procedure)

**193.2017(a), 193.2605(b), 193.2623(a), 193.2623(b), 193.2623(c), 193.2623(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Maintenance & Operations – Liquid Pipeline Maintenance**

**1. Status of Components**Does the process meet the general requirements for the condition and status of components? (Procedure)

**193.2017(a), 193.2603(a), 193.2603(b), 193.2603(d), 193.2603(e), 193.2605(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**2. Maintenance Procedures**Does the operator have procedures for the maintenance of each component, including any required corrosion control? (Procedure)

**193.2017(a), 193.2605(a), 193.2605(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**3. Recognizing Safety-related Conditions**Does the maintenance process contain instructions for recognizing a reportable safety-related condition? (Procedure)

**193.2017(a), 193.2605(a), 193.2605(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Control of Foreign Material and Debris**Does the process require that the facility be free from the presence of foreign material and debris? (Procedure)

**193.2017(a), 193.2607(a), 193.2607(b), 193.2605(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**5. Physical Support Systems**Does the process require that foundations and support systems be inspected for changes that could impair their support? (Procedure)

**193.2017(a), 193.2605(b), 193.2609**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Maintain Fire Protection Equipment**Has a maintenance program been established for all plant fire protection equipment in accordance with NFPA 59A, Section 9.6? (Procedure)

**193.2017(a), 193.2801, NFA 59A Section 9.6**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Fire Protection Out of Service**Does the process require that the amount of fire control equipment out of service at any one time be minimized? (Procedure)

**193.2017(a), 193.2611(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**8. Maintain Access Routes**Does the process require that access routes for movement of fire protection equipment be kept clear? (Procedure)

**193.2017(a), 193.2605(b), 193.2611(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**9. Testing Auxiliary Power Sources**Does the process require that auxiliary power sources be tested monthly for operational capability and annually for capacity? (Procedure)

**193.2017(a), 193.2605(b), 193.2613**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**10. Isolating and Purging**Does the process require purging of components handling flammable liquids prior to maintenance or, if the component or maintenance activity provides an ignition source, isolation of the component? (Procedure)

**193.2017(a), 193.2605(b), 193.2615(a), 193.2615(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**11. Repair of Components**Does the process require that repairs conform to the requirements of 193 Subpart D (Construction) and assure integrity/operational safety? (Procedure)

**193.2017(a), 193.2605(b), 193.2617(a), 193.2617(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**12. Control Systems**Does the process require that control systems meet the requirements of 193.2619? (Procedure)

**193.2017(a), 193.2605(b), 193.2619(a), 193.2619(b), 193.2619(c), 193.2619(d), 193.2619(e)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**13. Transfer Hoses**Does the process require the testing and inspection of transfer hoses before use and annually? (Procedure)

**193.2017(a), 193.2605(b), 193.2621(a), 193.2621(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Maintenance & Operations – Liquid Pipeline Operations**

**1. General Process Review and Update Requirements**Are there adequate requirements for review and update of plant plans and procedures? (Procedure)

**193.2017(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Monitoring Operations**Does the process require the monitoring of operating components and buildings for leaks, fires, and malfunctions that could cause a hazardous condition? (Procedure)

**193.2017(a), 193.2503(a), 193.2507**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Startup and Shutdown**Does the process require performance testing to demonstrate that components will operate satisfactory in service during startup and shutdown? (Procedure)

**193.2017(a), 193.2503(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Abnormal Operating Conditions**Does the process include provisions for recognizing abnormal operating conditions? (Procedure)

**193.2017(a), 193.2503(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Purging and Inerting**Does the process require that components that could accumulate significant amounts of combustible mixtures be adequately purged? (Procedure)

**193.2017(a), 193.2503(d), 193.2517**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Vaporization Design Limits**Does the process require that vaporizers operate within design limits? (Procedure)

**193.2017(a), 193.2503(e)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**7. Liquefaction Design Limits**Does the process require that liquefaction units operate within their design limits? (Procedure)

**193.2017(a), 193.2503(f)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**8. Cooldown of Components**Does the process require that the thermal stress of components be kept within design limits during cool-down? (Procedure)

**193.2017, 193.2503(g), 193.2505(a), 193.2505(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**9. Transfer of LNG**Is the process adequate for the transfer of LNG or other hazardous fluids? (Procedure)

**193.2017(a), 193.2513(a), 193.2513(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**10. Cargo Transfer Process**Does the process require the cargo transfer procedures be located at the transfer area and contain the provisions of 193.2513(c)? (Procedure)

**193.2017(a), 193.2513(a), 193.2513(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**11. Investigation of Failures**Does the process require that failures be investigated? (Procedure)

**193.2515(a), 193.2515(b), 193.2515(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**12. Communication Systems**Does the process require an adequate communication system? (Procedure)

**193.2519(a), 193.2519(b), 193.2519(c), 193.2445(a), 193.2445(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**13. Maintaining Operating Records**Is there an adequate process for maintaining the records of each inspection, test and investigation required by Part 193? (Procedure)

**193.2017(a), 193.2521**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Regulatory Reporting (Traditional)**

**1. Immediate Reporting: Incidents**Does process require incidents to be immediately reported to the National Response Center? (Procedure)

**193.2011, 191.3, 191.5(a), 191.5(b), 191.7(a), 191.7(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Incident Reports**Does the process require preparation and filing of an incident report as soon as practicable but no later than 30 days after discovery of a reportable incident? (Procedure)

**193.2011, 191.15(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Supplemental Incident Reports**Does the process require preparation and filing of supplemental incident reports? (Procedure)

**193.2011, 191.15(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. National Registry of Pipeline and LNG Operators (OPID)**Does the process require the appropriate control of Operator Identification Numbers (OPIDs) and notification of applicable changes to the National Registry of Pipeline and LNG Operators? (Procedure)

**193.2011, 191.22(a), 191.22(b), 191.22(c), 191.22(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Safety Related Condition Reports**Does the process require preparation and filing of safety related condition reports? (Procedure)

**193.2011, 191.23(a), 191.23(b), 191.25(a), 191.25(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Time Dependent Threats – External Corrosion - Atmospheric**

**1. Atmospheric Corrosion**Does the process require that components subject to atmospheric corrosive attack are made of corrosion-resistant materials or are coated/jacketed? (Procedure)

**193.2017(a), 193.2605(b), 193.2627(a), 193.2627(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Monitoring for Atmospheric Corrosion**Does the process require that each component that is protected from atmospheric corrosion be inspected at intervals not to exceed 3 years? (Procedure)

**193.2017(a), 193.2605(b), 193.2635(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Time Dependent Threats - External Corrosion – Cathodic Protection**

**1. Buried or Submerged Components**Does the process require that buried components are made of a corrosion-resistant material, or protected by coating and cathodic protection? (Procedure)

**193.2017(a), 193.2605(b), 193.2629(a), 193.2629(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Interference Currents**Does the process give sufficient guidance and detail for identifying areas of potential interference currents and minimizing the detrimental effects of such currents? (Procedure)

**193.2017(a), 193.2605(b), 193.2633(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Isolation of Adjacent Metal Components and Systems**Does the process require that cathodic protection be installed to minimize the detrimental effects on adjacent metal components and communication and control systems? (Procedure)

**193.2017(a), 193.2605(b), 193.2633(b), 193.2633(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Monitoring for External Corrosion**Does the process require that each buried or submerged component be tested for cathodic protection adequacy at least once each calendar year not to exceed 15 months? (Procedure)

**193.2017(a), 193.2605(b), 193.2635(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Rectifiers, Bonds, Diodes and Reverse Current Switches**Does the process require making electrical checks of rectifiers or other impressed current power source, interference bonds, reverse current switches and diodes at the code specified frequencies? (Procedure)

**193.2017(a), 193.2605(b), 193.2635(b), 193.2635(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Prompt Remedial Action**Does the process require that prompt remedial action be taken whenever corrosion control deficiencies are found? (Procedure)

**193.2017(a), 193.2605(b), 193.2637**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Time Dependent Threats - Internal Corrosion – Preventive Measures**

**1. Internal Corrosion**Does the process require that components subject to internal corrosive attack be made of corrosion-resistant material or be otherwise protected? (Procedure)

**193.2017(a), 193.2605(b), 193.2631(a), 193.2631(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Monitoring for Internal Corrosion**Does the process require that internal corrosion monitoring devices be checked at least twice each calendar year, not to exceed 7.5 months? (Procedure)

**193.2017(a), 193.2605(b), 193.2635(e)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Time Dependent Threats - General**

**1. Corrosion**Does the process require that components that can be adversely affected by corrosion be identified, and protected, or inspected and replaced? (Procedure)

**193.2017(a), 193.2605(b), 193.2625(a), 193.2625(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Training & Qualification – Operator Qualification**

**1. Qualifications and Training of Operations and Maintenance Personnel**Does the process define the qualifications and training requirements for personnel who operate and maintain components? (Procedure)

**193.2707(a), 193.2707(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Qualifications and Training of Corrosion Control Personnel**Does the process require that corrosion control of cathodic protection systems be carried out by, or under the direction of, personnel qualified by training or experience in corrosion control technology? (Procedure)

**193.2707(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**3. Personnel Health**Is there an adequate plan for evaluating the health and physical condition of personnel assigned operations, maintenance, security, or fire protection duties? (Procedure)

**193.2017(a), 193.2711**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Training of Operations, Maintenance, and Supervisory Personnel**Does the plan require that operations, maintenance, and supervisory personnel receive the mandatory initial training? (Procedure)

**193.2017(a), 193.2713(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Retraining of Operations, Maintenance, and Supervisory Personnel**Does the plan require that operations, maintenance, and supervisory personnel receive refresher training at intervals not to exceed two years? (Procedure)

**193.2017(a), 193.2713(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Training of Security Personnel**Does the plan require that security personnel receive the mandatory initial training? (Procedure)

**193.2017(a), 193.2715(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Retraining of Security Personnel**Does the plan require that security personnel receive refresher training at intervals not to exceed two years? (Procedure)

**193.2017(a), 193.2715(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Procedures – Training & Qualification – Training of Personnel**

**1. Training Fire Protection Personnel**Does the plan require that operations, maintenance, and supervisory personnel receive initial fire protection training that meets the requirements of 193.2717(a)? (Procedure)

**193.2017(a), 193.2717(a), 193.2717(c), 193.2801**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Retraining of Personnel in Fire Protection**Does the plan require that operations, maintenance, and supervisory personnel receive refresher fire protection training at intervals not to exceed two years and that training includes fire drills? (Procedure)

**193.2017(a), 193.2717(b), 193.2717(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records - Emergency Preparedness and Response - Emergency Response Liquids**

**1. Responding to Emergencies**Do records convey that operator adequately responded to emergencies and followed its emergency response procedures? (Records)

**193.2509(b)(1), 193.2509(b)(2)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Coordination of Evacuation Plans**Do records show that evacuation plans were coordinated with local authorities? (Records)

**193.2509(b)(3)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Cooperating on Mutual Assistance**Do records show cooperation with local officials on mutual assistance? (Records)

**193.2509(b)(4)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Facilities and Storage – Facilities General**

**1. Fire Protection Evaluation**Do records indicate that an adequate fire protection evaluation has been conducted as required by NFPA 59A, Section 9.1.2? (Records)

**193.2801, NFPA 59A Section 9.1.2, NFPA 600, NFPA 72, NFPA 1221**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**2. ESD - Source Shutdown / Isolation**Do records demonstrate that the emergency shutdown system meets the requirements of NFPA 59A, Section 9.2? (Records)

**193.2801, NFPA 59A Section 9.2**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Flammable Gas, Low Temperature and Fire Detection**Do records indicate that flammable gas and fire detection systems meet the requirements of NFPA 59A (2001), Section 9.3? (Records)

**193.2801, NFPA 59A Section 9.3, 193.2101(a), 193.2301, 193.2101(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Fire Water Supply and Delivery**Do records demonstrate that the fire water supply and distribution system meet the requirements of NFPA 59A (2001), Section 9.4? (Records)

**193.2801, NFPA 59A Section 9.4**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Fire Protection Equipment**Do records demonstrate the staging of fire protection equipment meets the requirements of NFPA 59A (2001), Section 9.5? (Records)

**193.2801, NFPA 59A Section 9.5, 193.2101(a), 193.2301, 193.2101(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Protective Clothing**Do records demonstrate that protective clothing was available in accordance with NFPA 59A, Sections 9.7.1 and 9.7.2? (Records)

**193.2801, NFPA 59A Section 9.7**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Taking an LNG Container Out of Service**Do records demonstrate that an LNG container taken out of service was performed in accordance with NFPA 59A, Section 9.9.2? (Records)

**193.2801, NFPA 59A Section 9.9**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**8. Protective Enclosure Construction**Do records indicate protective enclosures are constructed in accordance with 192.2907? (Records)

**193.2907(a), 193.2905(a), 193.2905(b), 193.2905(c), 193.2905(d), 193.2905(e), 193.2907(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Facilities and Storage – Tanks and Storage**

**1. LNG Storage Tanks**Do records show that LNG storage tanks have been adequately inspected? (Records)

**193.2639(a), 193.2623(a), 193.2623(b), 193.2623(c), 193.2623(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records - Maintenance & Operations – Liquid Pipeline Maintenance**

**1. Status of Components**Do records show that the status of out of service components was documented as required? (Records)

**193.2639(a), 193.2603(c), 193.2603(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Physical Support Systems**Do records show that foundations and support systems have been inspected? (Records)

**193.2639(a), 193.2609**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Maintain Fire Protection Equipment**Do records demonstrate an adequate maintenance program for plant fire protection equipment in accordance with NFPA 59A Section 9.6? (Records)

**193.2801, NFPA 59A Section 9.6**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Fire Protection Out of Service**Do records show that maintenance activities on fire protection equipment are scheduled to minimize downtime and ensure a minimum amount of equipment is available? (Records)

**193.2639(a), 193.2611(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Testing Auxiliary Power Sources**Do records show that auxiliary power systems have been tested monthly for operational capability and annually for capacity? (Records)

**193.2639(a), 193.2613**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Repair of Components**Do records show that repairs of components were made in accordance with 193 Subpart D (Construction) and assured integrity/operational safety? (Records)

**193.2639(a), 193.2617(a), 193.2617(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Control Systems**Do records show that control systems, relief valves, and other components were inspected or tested in accordance with 193.2619? (Records)

**193.2639(a), 193.2619(b), 193.2619(c), 193.2619(d), 193.2619(e)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**8. Transfer Hoses**Do records show that transfer hoses have been tested once each calendar year and inspected before each use? (Records)

**193.2639(a), 193.2621(a), 193.2621(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**9. Maintaining Maintenance Records**Are records of each inspection, test and investigation maintained in accordance with 193.2639? (Records)

**193.2639(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Maintenance & Operations – Liquid Pipeline Operations**

**1. General Process Review and Update Requirements**Do records show that plans and procedures have been reviewed and updated as necessary? (Records)

**193.2017(c)(2)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Monitoring Operations**Do records show that the operator monitored operating components and buildings for leaks, fires, and malfunctions that could cause a hazardous condition? (Records)

**193.2507, 193.2503(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Startup and Shutdown**Do records show that startup and shutdown procedures, including initial testing, were followed? (Records)

**193.2521, 193.2503(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Abnormal Operating Conditions**Do records show personnel responded to indications of abnormal operations as required by the AOC procedures? (Records)

**193.2521, 193.2503(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Purging and Inerting**Do records show that components that could accumulate significant amounts of combustible mixture were adequately purged? (Records)

**193.2517, 193.2503(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Vaporization Design Limits**Do records show that vaporizers operated within their design limits? (Records)

**193.2503(e)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Liquefaction Design Limits**Do records show that components operated within their liquefaction design limits? (Records)

**193.2503(f)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**8. Cooldown of Components**Do records indicate that cooldown of components was maintained within design limits? (Records)

**193.2505(a), 193.2505(b), 193.2503(g), 193.2101, 193.2301**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**9. Transfer of LNG**Do records show that LNG transfers were conducted in accordance with requirements? (Records)

**193.2513(a), 193.2513(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**10. Cargo Transfer Process**Do records show that cargo transfers were conducted in accordance with the process? (Records)

**193.2513(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
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**11. Investigation of Failures**Do records show that the operator adequately investigated failures? (Records)

**193.2521, 193.2515(a), 193.2515(b), 193.2515(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**12. Maintaining Operating Records**Are records of each inspection, test and investigation maintained in accordance with 193.2521? (Records)

**193.2521**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Reporting – Regulatory Reporting (Traditional)**

**1. Immediate Reporting: Incidents**Do records indicate immediate reports of incidents were made in accordance with 193.2011? (Records)

**193.2011, 191.3, 191.5(a), 191.5(b), 191.7(a), 191.7(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Incident Reports**Do records indicate reportable incidents were identified and reports were submitted on DOT Form PHMSA 7100.3 within the required timeframe? (Records)

**193.2011, 191.15(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Supplemental Incident Reports**Do records indicate accurate supplemental incident reports were filed and within the required timeframe? (Records)

**193.2011, 191.15(d)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Annual Report Records**Have complete and accurate Annual Reports been submitted? (Records)

**193.2011, 191.17(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. NPMS: Annual Updates**Do records indicate: NPMS submissions are completed each year, on or before March 15, representing all plants as of December 31 of the previous year, and if no modifications occurred an email to that effect was submitted? (Records)

**191.29(a), 191.29(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. National Registry of Pipeline and LNG Operators (OPID)**Do records indicate appropriate control of Operator Identification Numbers (OPIDs) and the National Registry of Pipeline and LNG Operators has been notified of applicable changes, including changes in entity, acquisition/divestiture, and construction in accordance with 191.22? (Records)

**193.2011, 191.22(a), 191.22(b), 191.22(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Safety Related Condition Reports**Do records indicate safety-related condition reports were filed as required? (Records)

**193.2011, 191.23(a), 191.23(b), 191.25(a), 191.25(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Time – Dependent Threats – External Corrosion – Atmospheric**

**1. Monitoring for Atmospheric Corrosion**Do records show that inspections for atmospheric corrosion were completed at the required intervals? (Records)

**193.2639(b), 193.2635(d), 193.2639(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Time – Dependent Threats – External Corrosion – Cathodic Protection**

**1. Buried or Submerged Components**Do records show that applicable buried and submerged components are protected from external corrosion? (Records)

**193.2639(b), 193.2629(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Interference Currents**Do records show that the operator has a continuing program to minimize the detrimental effects of interference currents? (Records)

**193.2639(b), 193.2633(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Monitoring for External Corrosion**Do records show that buried or submerged components cathodic protection adequacy was tested once each calendar year not to exceed 15 months? (Records)

**193.2639(b), 193.2635(a), 193.2639(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Rectifiers, Bonds, Diodes and Reverse Current Switches**Do records show adequate electrical checks of rectifiers or other impressed current power source, interference bonds, reverse current switches and diodes and at the required intervals? (Records)

**193.2369(b), 193.2635(b), 193.2635(c), 193.2639(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Prompt Remedial Action**Do records show that prompt corrective or remedial action was taken whenever corrosion control deficiencies were found? (Records)

**193.2639(b), 193.2637, 193.2639(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. CP Maps and Records**Does the operator have records showing cathodically protected components, structures bonded to the CP system, and corrosion protection equipment? (Records)

**193.2639(b), 193.2639(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Time – Dependent Threats – Internal Corrosion – Preventive Measures**

**1. Monitoring for Internal Corrosion**Do records show that internal corrosion monitoring devices were checked twice per calendar year, not to exceed 7.5 months? (Records)

**193.2639(b), 193.2635(e), 193.2639(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Time – Dependent Threats – Time Dependent Threats: General**

**1. Corrosion**Do records show that components that can be adversely affected by corrosion are identified, and protected, or inspected and replaced? (Records)

**193.2639(b), 193.2625(a), 193.2625(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Training and Qualification – Operator Qualification**

**1. Qualifications and Training of Operations and Maintenance Personnel**Do records show that operations and maintenance of components was conducted by personnel who met the qualifications and training requirements? (Records)

**193.2719(a), 193.2707(a), 193.2707(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Qualifications and Training of Corrosion Control Personnel**Do records demonstrate that personnel who perform corrosion control, or supervise unqualified individuals, are qualified in corrosion control technology? (Records)

**193.2719(a), 193.2707(c)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**3. Personnel Health**Do records show that the health and physical condition of personnel assigned operations, maintenance, security, or fire protection duties have been evaluated? (Records)

**193.2711**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**4. Training of Operations, Maintenance, and Supervisory Personnel**Do records show that operations, maintenance, and supervisory personnel have received the mandatory initial training? (Records)

**193.2713(a), 193.2719(a), 193.2719(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**5. Retraining of Operations, Maintenance, and Supervisory Personnel**Do records show that operations, maintenance, and supervisory personnel received refresher training every two years? (Records)

**193.2713(b), 193.2719(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**6. Training of Security Personnel**Do records show that security personnel received mandatory initial training? (Records)

**193.2715(a), 193.2719(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**7. Retraining of Security Personnel**Do records show that security personnel received refresher training every two years? (Records)

**193.2715(b), 193.2719(a)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**Records – Training and Qualification – Training of Personnel**

**1. Training Personnel in Fire Protection**Do records show that operations, maintenance, and supervisory personnel have been adequately trained in fire protection, including plant fire drills? (Records)

**193.2717(a), 193.2717(a)(1), 193.2717(a)(2), 193.2717(a)(3), 193.2717(c), 193.2719(a), 193.2719(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |

**2. Retraining of Personnel in Fire Protection**Do records show that operations, maintenance, and supervisory personnel received refresher fire protection training every two years, including plant fire drills? (Records)

**193.2717(b), 193.2717(c), 193.2719(a), 193.2719(b)**

|  |  |  |  |
| --- | --- | --- | --- |
| No Issue | Potential Issue | Not Applicable | Not Checked |
|  |  |  |  |
| **Notes** | | | |
|  | | | |