



## PRELIMINARY HAZARD ASSESSMENT FORM

PHA ID: 31	Date 12-29-2010	Performed By: <i>Mike Powers</i> Mike Powers
Brief Description: Administrative functions or Program Support Services involving general office duties in non-radiological TOC controlled facilities.		
<b>Fire Protection</b>		
<input type="checkbox"/>	Fire Protection Program TOC-PLN-13	10 CFR 851, "Worker Safety and Health."  29 CFR 1910.39, "Fire Prevention Plans."  <u>DOE O 420.1B</u> , "Facility Safety."  ENS-ENG-IP-05 R0, "ORP Fire Protection Program."  NFPA 101®, "Life Safety Code®," current edition.  NFPA 801, "Fire Protection for Facilities Handling Radioactive Materials."
<input type="checkbox"/>	Controls for Safe Hot Work TFC-ESHQ-FP-C-01	DOE O 420.1B, "Facility Safety."  National Fire Protection Association, Standard 51B, "Cutting and Welding Processes."  ENS-ENG-IP-05 R0, "ORP Fire Protection Program."  10 CFR 851, "Worker Safety and Health Program."  29 CFR 1926.350, "Welding and Cutting."  29 CFR 1926.351, "Arc Welding and Cutting."  29 CFR 1926.352, "Fire Prevention."  29 CFR 1926.353, "Ventilation and Protection In Welding, Cutting, and Heating."  29 CFR 1926.354, "Welding, Cutting, and Heating in Way of Preservative Coatings."  29 CFR 1910, Subpart Q, "Welding, Cutting, and Brazing."

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<input type="checkbox"/>	<p><b>Fire Marshal Permits, Combustible Controls, and Construction/Occupancy Requirements</b> <b>TFC-ESHQ-FP-STD-01</b></p>	<p>29 CFR 1910, "OSHA General Industry Regulations."</p> <p>29 CFR 1926, "OSHA Construction Industry Regulations."</p> <p>DOE O 420.1B "Facility Safety."</p> <p>ENS-ENG-IP-05 R0, "ORP Fire Protection Program."</p> <p>HNF-PRO-2827, "Facility and Mobile Office Number Management."</p> <p>HNF-SD-WM-FHA-024, "Fire Hazards Analysis for the Evaporator Facility (242-S)."</p> <p>National Fire Protection Association, Code 1 (NFPA 1), "Uniform Fire Code."™</p> <p>NFPA 70, "National Electric Code®" (NEC®).</p> <p>NFPA 101®, "Life Safety Code®."</p> <p>NFPA 241, "Standard for Safeguarding Construction, Alteration, and Demolition Operations."</p> <p>NFPA 701, "Standard Methods of Fire Tests for Flame-Resistant Textiles and Films"</p> <p>NFPA 801, "Fire Protection for Facilities Handling Radioactive Materials."</p> <p>NFPA 1144, "Protection of Life and Property from Wildfire."</p>
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<input type="checkbox"/>	<p><b>Fire Protection Design Criteria</b> <b>TFC-ESHQ-FP-STD-02</b></p>	<p>29 CFR 1910.159, "Automatic Sprinkler Systems."</p> <p>29 CFR 1910.165, "Employee Alarm Systems."</p> <p>DOE O 420.1B, "Facility Safety."</p> <p>ENS-ENG-IP-05 R0, "ORP Fire Protection Program."</p> <p>DOE-STD-1066-99, "Fire Protection Design Criteria."</p> <p>DOE-STD-1088-95, "Fire Protection for Relocatable Structures."</p> <p>10 CFR 851, "Worker Safety and Health."</p> <p>NFPA 1, "Uniform Fire Code™."</p> <p>NFPA 70™, "National Electrical Code®."</p> <p>NFPA 72®, "National Fire Alarm Code®."</p> <p>NFPA 101®, "Life Safety Code®"</p> <p>NFPA 801, "Fire Protection for Facilities Handling Radioactive Materials."</p> <p>HNF-36174, "DOE Fire Protection Handbook – Hanford Chapter."</p> <p>"International Building Code."</p>
<input type="checkbox"/>	<p><b>Flammable/Combustible Liquids</b> <b>TFC-ESHQ-FP-STD-03</b></p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>DOE O 420.1B, "Facility Safety."</p> <p>ENS-ENG-IP-05 R0, "ORP Fire Protection Program."</p> <p><u>RPP-13033</u>, "Tank Farms Documented Safety Analysis."</p> <p>29 CFR 1910.106, "OSHA General Industry Regulations," Flammable and Combustible Liquids.</p> <p>NFPA 30, "Flammable and Combustible Liquids Code."</p> <p>NFPA 70, "National Electric Code®" (Registered trademark of the National Fire Protection Association, Quincy, Massachusetts 02169).</p>

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<input type="checkbox"/>	<p><b>Fire Protection System Inspection, Testing, Maintenance, and Discrepancies Management</b> TFC-ESHQ-FP-STD-04</p>	<p><u>DOE O 420.1B</u>, "Facility Safety."  ENS-ENG-IP-05 R0, "ORP Fire Protection Program."  NFPA 1, "Uniform Fire Code."<sup>TM</sup>  NFPA 10, "Standard for Portable Fire Extinguishers."  NFPA 12A, "Standard on Halon 1301 Fire Extinguishing Systems."  NFPA 17, "Standard for Dry Chemical Extinguishing Systems."  NFPA 25, "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems."  NFPA 72, "National Fire Alarm Code."<sup>®</sup>  NFPA 80, "Standard for Fire Doors and Other Opening Protectives."  NFPA 90A, "Standard for the Installation of Air-Conditioning and Ventilating Systems."  NFPA 101, "Life Safety Code."<sup>®</sup>  NFPA 110, "Emergency and Standby Power Systems."  NFPA 1962, "Standard for the Inspection, Care, and Use of Fire Hose, Couplings, and Nozzles and the Service Testing of Fire Hose."</p>
<input type="checkbox"/>	<p><b>Flammable Gas Monitoring</b> TFC-ESHQ-FP-STD-05</p>	<p>RPP-19013, "Measuring Headspace Flammability Through Tank Risers."</p>
<input type="checkbox"/>	<p><b>Fire Hazard Analysis and Fire Protection Assessment Requirements</b> TFC-ESHQ-FP-STD-06</p>	<p><u>DOE O 420.1B</u>, "Facility Safety."  <u>ENG-ENG-IP-05 R0</u>, "ORP Fire Protection Program."  RPP-MP-003, "Integrated Environment, Safety, and Health Management System Description for the Tank Operations Contractor."  DOE G 420-1.3, "Implementation Guide for DOE Fire Protection and Emergency Services Programs for Use with DOE O 420.1B, Facility Safety."  DOE M 231.1, "Environment, Safety and Health Reporting Manual."</p>

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<input type="checkbox"/>	<p><b>Portable Fire Extinguishers and Building Fire Barriers</b> TFC-ESHQ-FP-STD-07</p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910, "Occupational Safety and Health Standards."</p> <p>Section 157(g)(1). "Portable Fire Extinguishers."</p> <p>Section 157(g)(2) "Portable Fire Extinguishers."</p> <p>DOE O 420.1B, "Facility Safety."</p> <p>ORP M 420.1-1, R1, "ORP Fire Protection Program."</p> <p>National Fire Protection Association, Standard 10 (NFPA 10), "Portable Fire Extinguishers."</p> <p>NFPA 80, "Fire Doors and Fire Windows."</p> <p>NFPA 101<sup>®</sup>, "Life Safety Code<sup>®</sup>."</p>
<input type="checkbox"/>	<p><b>Fire Protection System Winterization and Portable Heater Use</b> TFC-ESHQ-FP-STD-09</p>	<p>DOE O 420.1B, "Facility Safety."</p> <p>ENS-ENG-IP-05 R0, "ORP Fire Protection Program."</p> <p>TFC-ESHQ-FP-STD-01, "Fire Marshal Permits, Combustible Controls, and Construction Occupancy Requirements."</p> <p>TFC-ESHQ-FP-STD-03, "Flammable/Combustible Liquids."</p> <p>TFC-PLN-13, "Fire Protection Program."</p>
<input type="checkbox"/>	<p><b>Hanford Fire Department Services</b> TFC-ESHQ-FP-STD-12</p>	<p>DOE O 420.1B, "Facility Safety."</p> <p>ENS-ENG-IP-05 R0, "ORP Fire Protection Program."</p> <p>DOE-ORP Letter Number 00-SHD-103, "The Authority, Responsibilities, and Duties of the Hanford Fire Marshall (Fire Marshal's Charter), dated November 6, 2000.</p> <p>WAC 173-303, "Dangerous Waste Regulations."</p> <p>10 CFR 851, "Worker Safety and Health Programs."</p>

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<input type="checkbox"/>	<p><b>Fire Protection Requirements for Hazardous Material and Used Waste Absorbing Material Storage</b> TFC-ESHQ-FP-STD-13</p>	<p>DOE O 420.1B, "Facility Safety."</p> <p>ENS-ENG-IP-05 R0, "ORP Fire Protection Program."</p> <p>WAC 173-303.</p> <p>Section 395(1).</p> <p>Section 630(8) and (8)(a).</p> <p>Section 630(8)(b).</p> <p>NFPA 1, "Uniform Fire Code <sup>tm</sup>"</p> <p>NFPA 10, "Portable Fire Extinguishers."</p> <p>NFPA 70, "National Electrical Code®."</p> <p>NFPA 72, "National Fire Alarm Code®."</p> <p>NFPA 1221, "Standard for the Installation, Maintenance, and Use of Emergency Services Communication Systems."</p> <p>Uniform Building Code.</p>
<b>Safety Case Management</b>		
<input type="checkbox"/>	<p><b>Injury and Illness Recordkeeping</b> TFC-ESHQ-S_CMLI-C-01</p>	<p>29 CFR 1904, Parts 1904.4 through 1904.11, 1904.29 through 1904.33, 1904.44, and 1904.46, "Recording and Reporting Occupational Injuries and Illnesses."</p> <p>DOE Manual 231.1-1A, "Environment, Safety and Health Reporting", Attachment 2.</p> <ul style="list-style-type: none"> <li>a) Section 3.a - Maintenance of records and performance of self-assessments.</li> <li>b) Section 3.b.1 - Record injury/illness on OSHA 300 Log.</li> <li>c) Section 3.b.2 - Record injury/illnesses on DOE F 5484.3.</li> <li>d) Section 3.b.3 - Report employee's total work hours on DOE F 5484.4.</li> <li>e) Section 3.c - Subcontractor recordkeeping requirements.</li> <li>f) Section 3.d - Bi-Monthly electronic uploading of CAIRS data.</li> <li>g) Section 3.e - Quarterly electronic uploading of work-hours.</li> <li>h) Section 3.f - Posting of OSHA Form 300A.</li> <li>i) Section 3.g.1 - Maintenance of previous contractor records.</li> <li>j) Section 3.g.2 - Record access.</li> <li>k) Section 3.g.3 - OSHA 300 Log updating requirements.</li> <li>l) Section 3.g.4 - Recordkeeping training requirements.</li> </ul>

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<input type="checkbox"/>	<b>Injury and Illness Events</b> <b>TFC-ESHQ-S_CMLI-C-02</b>	<p>10 CFR 851 "Worker Safety and Health Program."</p> <p>29 CFR 1904, "Recording and Reporting Occupational Injuries and Illnesses."  a) Section 35, Subpart D.a.1.  b) Section 39, Subpart E.  DOE N 350.6, "Acceptance of Valid Workers' Compensation Claims."</p> <p>DOE O 231.1, "Environment, Safety and Health Reporting  Chg. 2, Attachment 1, Section 1.a.  a) Chg. 2, Attachment 1, Section 1.b.</p>
<b>Safety - Industrial Hygiene</b>		
<input type="checkbox"/>	<b>Hazard Communication</b> <b>TFC-ESHQ-S_IH-C-02</b>	<p>29 CFR 1910, Subpart Z, "Toxic and Hazardous Substances"</p> <p>29 CFR 1910.1200(h)(3).</p> <p>29 CFR 1910, Section 1450, "Occupational exposure to hazardous chemicals in laboratories," paragraph (f), "Employee information and training", paragraphs (1), (2), and (4)(I).</p> <p>29 CFR 1926, Subpart Z, "Toxic and Hazardous Substances."</p> <p>RPP-MP-003, "Integrated Environment, Safety, and Health Management System Description for the Tank Farm Contractor."</p>
<input type="checkbox"/>	<b>Permit Required Confined Space</b> <b>TFC-ESHQ-S_IH-C-04</b>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910.146, OSHA, "Permit-Required Confined Spaces."</p>
<input type="checkbox"/>	<b>Respiratory Protection</b> <b>TFC-ESHQ-S_IH-C-05</b>	<p>10 CFR 851, Section 23, "Safety and Health Standards."</p> <p>29 CFR 1910.134, "Respiratory Protection."  a) 134(h)(1)(iii).  b) 134(h)(3)(i)(B).  c) 134(h)(3)(iv)  d) Appendix B-1</p> <p>29 CFR 1926.103, "Respiratory Protection."</p> <p>ANSI Z88.2, "American National Standard for Respiratory Protection."</p>

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<input type="checkbox"/>	<b>Heat Stress Control</b> <b>TFC-ESHQ-S_IH-C-07</b>	10 CFR 851, "Worker Safety and Health Program."  American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances, Physical Agents and Biological Exposure Indices."
<input checked="" type="checkbox"/>	<b>Employee Job Task Analysis</b> <b>TFC-ESHQ-S_IH-C-17</b>	10 CFR 851, "Worker Safety and Health Program."  29 CFR 1910.151, "Medical Services and First Aid." 29 CFR 1926.50, "Medical Services and First Aid."  RPP-MP-003, "Integrated Environment, Safety, and Health Management System Description for the Tank Operations Contractor."
<input type="checkbox"/>	<b>Industrial Hygiene Alarm Response</b> <b>TFC-ESHQ-S_IH-C-45</b>	10 CFR 851, "Worker Safety and Health Program."
<input type="checkbox"/>	<b>Industrial Hygiene Reporting and Records Management</b> <b>TFC-ESHQ-S_IH-C-46</b>	10 CFR 851, "Worker Safety and Health Program."  29 CFR 1910.1020 "Access to Employee Exposure and Medical Records."

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<input type="checkbox"/>	<p><b>Chemical Management Process</b> TFC-ESHQ-S_IH-C-47</p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910.106, "Flammable and Combustible Liquids."</p> <p>29 CFR 1910.1200, "Hazard Communication."</p> <p>40 CFR 355, "Emergency Planning and Notification."</p> <p>40 CFR 370, "Hazardous Chemical Reporting Community Right-to-Know."</p> <p>40 CFR 372, "Toxic Chemical Release Reporting Community Right-to-Know."</p> <p>41 CFR 101-42, "Utilization and Disposal of Hazardous Materials and Certain Categories of Property."</p> <p>DOE O 151.1C, "Comprehensive Emergency Management System."</p> <p>DOE O 420.1B, "Facility Safety."</p> <p>DOE O 450.1, CRD "Environmental Protection Program."</p> <p>Executive Order 13101, "Greening the Government through Waste Prevention, Recycling, and Federal Acquisition."</p> <p>ORP M 420.1-1, R1, "ORP Fire Protection Program."</p>
<input checked="" type="checkbox"/>	<p><b>Ergonomics</b> TFC-ESHQ-S_IH-STD-03</p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>American Conference of Governmental Industrial Hygienists, "Threshold Limit Values for Chemical Substances and Physical Agents."</p> <p>29 CFR 1910.5 (a), "General Duty Clause." (Contract)</p> <p>RPP-MP-003, "Integrated Environment, Safety, and Health Program Description for the Tank Farm Contractor."</p>

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Safety - Industrial Hygiene Standards		
<input type="checkbox"/>	<b>Cold Stress</b> <b>TFC-ESHQ-IH-STD-01</b>	10 CFR 851, "Worker Safety and Health Program."
<input type="checkbox"/>	<b>Laser Safety and Nonionizing Radiation</b> <b>TFC-ESHQ-IH-STD-02</b>	American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices (2005).  ANSI Z136.1- , "Safe Use of Lasers." (2000)  29 CFR 1910, Subpart G, Section 97, "Nonionizing Radiation."  29 CFR 1926, Subpart D, Section 54, "Nonionizing Radiation."
<input type="checkbox"/>	<b>Exposure Monitoring, Reporting, and Records Management</b> <b>TFC-ESHQ-IH-STD-03</b>	10 CFR 851, "Worker Safety and Health Program."  29 CFR 1910.95, "Occupational Noise Exposure."  29 CFR 1910.1001, "Asbestos." 29 CFR 1910.1017, "Vinyl Chloride."  29 CFR 1910.1018, "Inorganic Arsenic."  29 CFR 1910.1020; "Access to Employee Exposure and Medical Records."  29 CFR 1910.1025, "Lead."  29 CFR 1910.1026, "Chromium (VI) – Hexavalent Chromium."  29 CFR 1910.1027, "Cadmium."  29 CFR 1910.1028, "Benzene."  29 CFR 1910.1045, "Acrylonitrile."  29 CFR 1910.1047, "Ethylene Oxide."  29 CFR 1910.1048, "Formaldehyde."  29 CFR 1910.1051, "1,3-Butadiene."  29 CFR 1910.1052, "Methylene Chloride."

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<input type="checkbox"/>	<p><b>Asbestos Control - Facility Management/General Industry</b> TFC-ESHQ-IH-STD-04</p>	<p>ANSI 9.2-1979, "Fundamentals Governing the Design and Operation of Local Exhaust Systems."</p> <p>29 CFR 1910, Subpart J, "General Environmental Controls," Section 141 (d)(3) and (e), "Sanitation." (S/RID)</p> <p>29 CFR 1910, Subpart Z, "Toxic and Hazardous Substances," Section 1001 and Appendix F.</p> <p>40 CFR 763, Subpart E, "Asbestos-Containing Materials in Schools," Section 86, "Sampling."</p>
<input type="checkbox"/>	<p><b>Asbestos Control - Construction Industry</b> TFC-ESHQ-IH-STD-05</p>	<p>29 CFR 1910.1020, "Access to Employee Exposure and Medical Records."</p> <p>29 CFR 1910.1200, "Hazard Communication."</p> <p>29 CFR 1926.32(f), "Definitions."</p> <p>29 CFR 1926.1101, "Asbestos (Construction)," Subpart Z, Section 1101.</p> <p>40 CFR 763, Subpart E, "Asbestos-Containing Materials in Schools," Appendix C.</p> <p>40 CFR 763.86, "Sampling."</p> <p>40 CFR 763.90, "Response Actions," (g).</p> <p>40 CFR 763.92, "Training and Periodic Surveillance," (a)(1) and (a)(2).</p>

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<input type="checkbox"/>	<p><b>Hearing Conservation Program</b> <b>TFC-ESHQ-IH-STD-06</b></p>	<p>29 CFR 1910, Subpart G, Section 95, "Occupational Noise Exposure."</p> <p>29 CFR 1926, Subpart D, Section 52, "Occupational Noise Exposure."</p> <p>29 CFR 1926, Subpart E, Section 101, "Hearing Protection."</p> <p>ACGIH, "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices."</p>
<input type="checkbox"/>	<p><b>Lead Control Program</b> <b>TFC-ESHQ-IH-STD-08</b></p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910.133, "Eye and Face Protection."</p> <p>29 CFR 1910.134, "Respiratory Protection." 29 CFR 1910.1025, "Lead (General industry)."</p> <p>29 CFR 1926.62, "Lead Exposure (Construction)."</p> <p>29 CFR 1926.1020 "Access to Employees Exposure and Medical Records."</p>
<input type="checkbox"/>	<p><b>Carcinogen Control</b> <b>TFC-ESHQ-IH-STD-11</b></p>	<p>29 CFR 1910, Subpart Z – "Toxic and Hazardous Substances."</p> <p>American Conference of Governmental Industrial Hygienists (ACGIH), Carcinogen List.</p>
<input type="checkbox"/>	<p><b>Illumination</b> <b>TFC-ESHQ-IH- STD-13</b></p>	<p>10 CFR Part 851, "Worker Health and Safety Program."</p> <p>29 CFR Part 1910, Section 120, Paragraph (m), "Illumination."</p> <p>29 CFR Part 1926, Section 56, "Illumination."</p> <p>29 CFR Part 1926, Section 65, Paragraph (m), "Illumination."</p>

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Safety - Industrial Safety		
<input checked="" type="checkbox"/>	Worker Safety and Health Program TFC-PLN-47	10 CFR 851 Worker Safety and Health Program
<input type="checkbox"/>	Scaffolding TFC-ESHQ-S_IS-C-01	10 CFR 851, "Worker Safety and Health Program."  29 CFR 1910, Subpart D, Section 28, "Safety Requirements for Scaffolding"  29 CFR 1910.29, "Manually Propelled Mobile Ladder Stands and scaffolds."  29 CFR 1926, Subpart L, Sections 451- 454 "Scaffolds."
<input type="checkbox"/>	Personal Protective Equipment TFC-ESHQ-S_IS-C-02	10 CFR 851, "Worker Safety and Health Program"  29 CFR 1910, Subpart I, "Personal Protective Equipment." 1910.132, "General requirements." a) 1910.133, "Eye and face protection." b) 1910.135, "Head protection." c) 1910.136, "Foot protection." d) 1910.138, "Hand protection."  29 CFR 1926, Subpart E, "Personal Protective and Life Saving Equipment." 1926.28, "Personal protective equipment." a) 1926.95, "Criteria for personal protective equipment." b) 1926.96, "Occupational foot protection." c) 1926.100, "Head protection." d) 1926.102, "Eye and face protection." e) 1926.107, "Definitions applicable to this subpart."
<input type="checkbox"/>	Excavating, Trenching, and Shoring TFC-ESHQ-S_IS-C-03	American Public Works Association (APWA), "Excavator's Damage Prevention Guide," 1997.  ANSI/ASTM D120-95, "Standard Specification For Rubber Insulating Gloves."  10 CFR 851, "Worker Safety and Health Program."  29 CFR 1926, Subpart P, "Excavations."  29 CFR 1926.650, "Scope, application, and definitions applicable to this subpart."  29 CFR 1926.651, "Specific Excavation Requirements."  29 CFR 1926.652, "Requirements for Protective Systems."

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<input checked="" type="checkbox"/>	<b>Powered Industrial Trucks</b> <b>TFC-ESHQ-S_IS-C-07</b>	<p>29 CFR 1910, "Occupational Safety and Health Standards," Subpart N, "Materials, Handling and Storage."</p> <p>29 CFR 1910.178, "Powered Industrial Trucks."</p> <p>DOE-RL-92-36, "Hanford Site Hoisting and Rigging Manual."</p>
<b>Safety - Safety Management</b>		
<input type="checkbox"/>	<b>Job Hazard Analysis</b> <b>TFC-ESHQ-S_SAF-C-02</b>	<p>RPP-MP-003, "Integrated Environment, Safety, and Health Management System Description for the Tank Farm Contractor."</p> <p>10 CFR 851, "Worker Safety and Health Program."</p>
<input checked="" type="checkbox"/>	<b>Control of Working Hours and Working Alone</b> <b>TFC-ESHQ-S_SAF-C-03</b>	<p>DOE Manual 460.2-1, "Radioactive Material Transportation Practices Manual."</p> <p>DOE/RL-2001-36, "Hanford Site wide Transportation Safety Document."</p> <p>Occupational Safety and Health Act of 1970, OSHA Section 5(a)(1).</p> <p>49 CFR Part 395, Section 3 and 8, U.S. Department of Transportation, Federal Motor Carrier Safety Regulations, "Hours of Service of Drivers – Maximum Driving and On Duty Time."</p>
<input type="checkbox"/>	<b>Issue and Control of Insulating Rubber Gloves</b> <b>TFC-ESHQ-S_SAF-C-05</b>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910.137, "Electrical Protective Equipment."</p>
<input type="checkbox"/>	<b>NRTL Requirements for Electrical Equipment</b> <b>TFC-ESHQ-S_SAF-C-09</b>	<p>29 CFR 1910 Subpart S, U. S. Department of Labor Regulations, "Occupational Safety and Health Standards, Electrical, 1910.303, "General Requirements."</p> <p>NFPA 70 National Electric Code.          NEC Article 110-2.          NEC Article 110-3.</p> <p>29 CFR 1926 Subpart K, U.S. Department of Labor Regulations, "Occupational Safety and Health Standards, Electrical, 1926.403, "General Requirements."</p>

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<input checked="" type="checkbox"/>	<b>Safety Meetings</b> <b>TFC-ESHQ-S_SAF-CD-10</b>	<p>29 CFR 1926.21(a), "Safety Training and Education."</p> <p>RPP-MP-003, "Integrated Environment, Safety, and Health Management System Description for the Tank Farm Contractor."</p> <p>TFC-BSM-IRM_DC-C-02, "Records Management."</p> <p>TFC-OPS-OPER-C-28, "Lessons Learned."</p>
<input type="checkbox"/>	<b>Safety Assessments</b> <b>TFC-ESHQ-S_SAF-P-06</b>	<p>RPP-MP-003, "Integrated Environment, Safety, and Health Management System Description for the Tank Farm Contractor."</p> <p>TFC-PLN-10, "Assessment Program Plan."</p> <p>10 CFR 851 "Worker Safety and Health Program."</p>
<b>Safety - Standards</b>		
<input type="checkbox"/>	<b>Ladders</b> <b>TFC-ESHQ-S-STD-01</b>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910.25, "Portable Wood Ladders."</p> <p>29 CFR 1910.26, "Portable Metal Ladders."</p> <p>29 CFR 1910.27, "Fixed Ladders."</p> <p>29 CFR 1926, Subpart X, "Stairways and Ladders."</p> <p>29 CFR 1926, Subpart T, "Demolition," 1926.851 - Stairs, Passageways, and Ladders."</p>
<input checked="" type="checkbox"/>	<b>Transportation Safety</b> <b>TFC-ESHQ-S-STD-02</b>	<p>Worker Safety and Health Program- 10 CFR 851, Appendix A, Section 9, "Motor Vehicle Safety."</p> <p>29 CFR 1910, Subpart Z, "Toxic and Hazardous Substances, 1910.1201, "Retention of DOT markings, placards and labels."</p> <p>29 CFR 1926, "Subpart O, Motor Vehicles, Mechanized Equipment, and Marine Operations."</p> <p>29 CFR 1926, "Subpart W, Rollover Protective Structures; Overhead Protection."</p> <p>49 CFR, "Transportation," Chapter II, Federal Railroad Administration, Department of Transportation, Parts 211-240.</p> <p>RCW 46.20.001, "License Required - Rights and Restriction."</p>

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<input type="checkbox"/>	<p><b>Electrical Safety</b> <b>TFC-ESHQ-S-STD-03</b></p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910, Subpart I, "Personal Protective Equipment," 1910.137, "Electrical Protective Equipment."</p> <p>29 CFR 1910, Subpart S, "Electrical."</p> <p>29 CFR 1910.302, "Electric Utilization Systems."</p> <p>29 CFR 1910.303, "General Requirements (electrical)."</p> <p>29 CFR 1910.304, "Wiring Design and Protection."</p> <p>29 CFR 1910.305, "Wiring Methods, Components, and Equipment for General Use."</p> <p>29 CFR 1910.306, "Specific Purpose Equipment and Installations."</p> <p>29 CFR 1910.307, "Hazardous Locations."</p> <p>29 CFR 1910.308, "Special Systems."</p> <p>29 CFR 1910.331, "Scope."</p> <p>29 CFR 1910.332, "Training."</p> <p>29 CFR 1910.333, "Selection and Use of Work Practices."</p> <p>29 CFR 1910.334, "Use of Equipment."</p> <p>29 CFR 1910.335, "Safeguards for Personal Protection."</p> <p>29 CFR 1926, Subpart K, "Electrical."</p> <p>NFPA 70-2005, "National Electrical Code (NEC)."</p> <p>NFPA 70E-2004, "Standard for Electrical Safety Requirements for Employee Workplace."</p>
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## PRELIMINARY HAZARD ASSESSMENT FORM

<input type="checkbox"/>	<b>Lockout/Tagout</b> <b>DOE-0336</b>	<p>NFPA 70E, Section 120, <i>Working on or Near Energized Electrical Conductors or Circuit Parts that have Lockout/Tagout Devices Applied</i></p> <p>29 CFR 1910.147, <i>The Control of Hazardous Energy (Lockout/Tagout)</i></p> <p>29 CFR Part 1910.333, <i>Lockout and Tagging</i>          U.S. Department of Energy (DOE) Order 5480.19, Change 2, Attachment 1, Chapter IX, <i>Lockout and Tagouts</i></p>
<input checked="" type="checkbox"/>	<b>First Aid</b> <b>TFC-ESHQ-S-STD-04</b>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910.38, "Employee Emergency Plans and Fire Prevention Plans." (S/RID)</p> <p>29 CFR 1910.151(b), "Medical and First Aid."</p> <p>29 CFR 1926.23, "First Aid and Medical Attention."</p> <p>29 CFR 1926.35, "Employee Emergency Action Plans."</p> <p>29 CFR 1926.50, "Medical Services and First Aid."</p> <p>NFPA 70 E, "Standard for Electrical Safety Requirements for Employee Workplace," Part II, Section 1-5.3.</p>
<input checked="" type="checkbox"/>	<b>Walking and Working Surfaces</b> <b>TFC-ESHQ-S-STD-05</b>	<p>29 CFR 1910, Subpart D, "Walking-Working Surfaces."          1910.22, "General Requirements."          1910.23, "Guarding Floor and Wall Openings and Holes."          1910.24, "Fixed Industrial Stairs."</p> <p>29 CFR 1910, Subpart E, "Means of Egress."</p> <p>29 CFR 1926, Subpart M, "Fall Protection."</p> <p>29 CFR 1926 Subpart X, "Stairways and Ladders."</p> <p>NFPA 101, "Life Safety Code."</p> <p>10 CFR 851, "Worker Safety and Health Program."</p>

## PRELIMINARY HAZARD ASSESSMENT FORM

<input type="checkbox"/>	<p><b>Safety Inspections</b> TFC-ESHQ-S_SAF-C-12</p>	<p>10 CFR 851.21, "Worker Safety and Health Program, Hazard Identification and Assessment."</p> <p>29 CFR 1926.20(b) (2), "Accident Prevention Responsibilities."</p> <p>RPP-MP-003, "Integrated Environment, Safety, and Health Management System Description for the Tank Operations Contractor."</p> <p>DOE/EH-0433, "U.S. Department of Energy Voluntary Protection Program (DOE-VPP)," Program Elements.</p>
<input checked="" type="checkbox"/>	<p><b>Office Safety</b> TFC-ESHQ-S-STD-11</p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910.334(b)(2), "Use of Equipment."</p> <p>29 CFR 1910, Subpart E, "Means of Egress."</p>
<input type="checkbox"/>	<p><b>Elevating Work Platforms</b> TFC-ESHQ-S-STD-12</p>	<p>ANSI/SIA A92.2, "Vehicle Mounted Elevating and Rotating Aerial Devices."</p> <p>ANSI/SIA A92.3, "Manually Propelled Elevating Work Platforms."</p> <p>ANSI/SIA A92.5, "Boom-Supported Elevating Work Platforms."</p> <p>ANSI/SIA A92.6, "Self-Propelled Elevating Work Platforms."</p> <p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910, "Occupational Safety and Health Administration, Department of Labor," Subpart F, Section 67, "Vehicle-Mounted Elevating and Rotating Work Platforms"</p> <p>29 CFR 1926, "Safety and Health Regulations for Construction," Subpart L, Section 453, "Aerial Lifts."</p>

## PRELIMINARY HAZARD ASSESSMENT FORM

<input type="checkbox"/>	<p><b>Hand and Portable Power Tools</b> TFC-ESHQ-S-STD-13</p>	<p>10 CFR 851, "Worker Safety and Health Program."</p> <p>29 CFR 1910, Subpart P, "Hand &amp; Portable Powered Tools &amp; Other Hand-Held Equipment." 1910.242, "Hand and portable powered tools and equipment, general." 1910.243, "Guarding of portable powered tools." 1910.244, "Other portable tools and equipment." 1910.169, "Air receivers."</p> <p>29 CFR 1926, Subpart I, "Tools - Hand and Power." 1926.300, "General requirements." 1926.301, "Hand tools." 1926.302, "Power-operated hand tools." 1926.303, "Abrasive wheels and tools." 1926.304, "Woodworking tools." 1926.305, "Jacks - lever and ratchet, screw and hydraulic." 1926.306, "Air receivers." 1926.307, "Mechanical power-transmission apparatus."</p>
<input checked="" type="checkbox"/>	<p><b>Safety Signs, Tags, Barriers, and Color Coding</b> TFC-ESHQ-S-STD-18</p>	<p>29 CFR 1910, "Occupational Safety and Health Administration, Department of Labor." Subpart J, "General Environmental Controls." 29 CFR 1910.144, "Safety Color Code for Marking Physical Hazards." 29 CFR 1910.145, "Specifications for Accident Prevention Signs and Tags."</p> <p>29 CFR 1926, "Safety and Health Regulations." Subpart G, "Signs, Signals, and Barricades." 29 CFR 1926.200, "Accident Prevention Signs and Tags."</p>
<input type="checkbox"/>	<p><b>Safety Shower, Eyewash And Decontamination Facility Operation Standard</b> TFC-ESHQ-S-STD-19</p>	<p>29 CFR 1910, Subpart K, Section 151, "Medical services and first aid." 29 CFR 1926.50(g) – Medical services and First Aid. American National Standard Z358.1-2004, "Emergency Eyewash and Shower Equipment." 10 CFR 851, "Worker Safety and Health."</p>
<input type="checkbox"/>	<p><b>Machine Guarding</b> TFC-ESHQ-S-STD-21</p>	<p>29 CFR 1910, Subpart O, "Machinery and Machine Guarding." 29 CFR 1926, Subpart I, "Tools - Hand and Power."</p>

## PRELIMINARY HAZARD ASSESSMENT FORM

<input type="checkbox"/>	<b>Blood borne Pathogen Exposure Control Standard</b> <b>TFC-ESHQ-S-STD-24</b>	<p>10 CFR 851, "Worker Safety and Health Program."  29 CFR 1910.151(b), "Medical Services and First Aid."   29 CFR 1910.1020, "Access to Employee Exposure and Medical Records."  29 CFR 1910.1030, "Bloodborne Pathogens."</p>
<input type="checkbox"/>	<b>Storing, Using, Handling, and Transporting Compressed and Liquefied Gases</b> <b>TFC-ESHQ-S-STD-25</b>	<p>29 CFR 1910, Subpart H, "Hazardous Materials"  Section 101, "Compressed gases general requirements."  Section 102, "Acetylene."  Section 103, "Hydrogen"  Section 104, "Oxygen."  Section 110, "Storage and Handling of Liquefied Petroleum Gases."  Section 111, "Storage and Handling of Anhydrous Ammonia."   29 CFR 1910, Subpart I, Section 134, "Respiratory Protection."   29 CFR 1910, Subpart L, Section 157, "Portable Fire Extinguishers."   29 CFR 1926.350, "Gas Welding and Cutting."</p>
<input checked="" type="checkbox"/>	<b>Fall Protection</b> <b>TFC-ESHQ-S-STD-26</b>	<p>29 CFR 1910, "Occupational Safety and Health Standards," Subpart D, "Walking-Working Surfaces," 1910.23, "Guarding floor and wall openings and holes."   29 CFR 1926 Subpart M, "Fall Protection."   29 CFR 1926.501(a), (b), and (c), "Safety and Health Regulations for Construction."   29 CFR 1926.1050 - 1060, "Stairways and Ladders."   National Fire Protection Association 101, "Life Safety Code," Section 7, "Means of Egress."</p>
<input checked="" type="checkbox"/>	<b>Housekeeping/Sanitation</b> <b>TFC-ESHQ-S-STD-27</b>	<p>29 CFR 1910.22, Subpart D, "Walking-Working Surfaces."   29 CFR 1910.141, "Housekeeping/Sanitation."   29 CFR 1926.25, "Housekeeping."   29 CFR 1926.51, "Sanitation."   29 CFR 1926.252, "Disposal of Waste Materials."</p>

**PRELIMINARY HAZARD ASSESSMENT FORM**

<input type="checkbox"/>	<p><b>Hoisting and Rigging Safety</b> <b>TFC-ESHQ-S-STD-28</b></p>	<p>29 CFR 1910, "Occupational Safety and Health Standards."</p> <p>29 CFR 1926, "Safety and Health Regulations for Construction."</p> <p>DOE-RL-92-36, "Hanford Site Hoisting and Rigging Manual."</p> <p>TFC-PLN-02, "Quality Assurance Program Description."</p> <p>TFC-PLN-32, "Tank Operations Contractor Safety Management Programs."</p> <p>TFC-ESHQ-S_IS-C-07, "Powered Industrial Trucks."</p>
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