

## ATTACHMENT A - BOILER OPERATION (Rev. 0)

The technical work scope of this proposal encompasses the necessary activities to prepare for assuming the operation of the 242A-BA boilers that provide steam for 242A Evaporator operations. The detailed scope involves the following:

| ITEMS      | SCOPE   |
|------------|---|
| <b>1.0</b> | <b>Operate the following scope identified below:</b>  |
| 1.1        | Two (2) 700hp (low pressure, 15 psig) and one 200hp (high pressure, 150 psig) #2 diesel-fired boilers.  |
| 1.2        | All boiler ancillary equipment supporting the boiler operations, which include a steam condensate return system, a deaerator system, water softener system, 120-gallon softener regenerate holding tank, and an air-gap system.   |
| <b>2.0</b> | <b>Maintain for the following items below:</b>  |
| 2.1        | Supply water quality through operation of industrial water softener and the deaerator feedwater system.   |
| 2.2        | 40,000-gallon diesel supply tank with #2 low sulfur fuel to operate the 242A-BA Cleaver Brooks boilers.   |
| 2.3        | Operation records on all boiler and ancillary equipment, boiler tuning, visual emissions, boiler chemical water analysis, and water discharge to TEDF.  |
| 2.4        | Maintain a facility record of vendor certified ultra-low sulfur diesel fuel delivery and monthly fuel usage for each boiler. See Section 7.2 for environmental requirements   |
| <b>3.0</b> | <b>Perform the following scope identified below:</b>  |
| 3.1        | Internal inspections of the boilers shall be performed prior to operating the boilers.  |
| 3.2        | Operation acceptance testing (OAT).   |
| 3.3        | Boiler tuning and Method 9 visual emission observations during boiler operations and at least quarterly in compliance with Hanford Air Operating Permit 00-05-006 section 1.4.2 for boiler exhaust emissions. See Section 7.2 for environmental requirements.   |
| 3.4        | All inspections and maintenance as required by the Hanford Air Operating Permit.  |
| 3.5        | Sample wastewater for parameters once per 242-A Evaporator campaign with a maximum of two sampling events per calendar year to ensure compliance with ST0004502 (RPP-RPT-59117). See Section 7.2 for environmental requirements.  |
| 3.6        | Interface with Boiler Project Manager and Evaporator Operations Management for steam supply needs, and any equipment issues that will be inferred with campaign dates. Interface with 242A Shift Managers on a 24/7 basis during evaporator campaigns.  |
| 3.7        | During boiler operations, contractor staff will operate and monitor the boilers and ancillary equipment 24/7 for required operational conditions in support of 242A Evaporator steam production.  |
| 3.8        | Submit product data in accordance Section 4.0 (Submittals) of the Scope of Work. <ul style="list-style-type: none"> <li>• Prior to any chemical product (e.g., WD-40, grease, sealant, dye for PT, etc.) use, submit the following as required for approval in accordance with the TOC MSR. <ul style="list-style-type: none"> <li>○ Chemical Inventory Worksheet (form A-6006-240) with SDS/MSDS. Obtain current copy from the Buyer Technical Representative (BTR) or WRPS representative.</li> </ul> </li> </ul> |

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|            | <ul style="list-style-type: none"> <li>○ NOTE: Submit completed Chemical Inventory Worksheet (section C [Inventory Use Status] and section 18 [Inventory Use Status Submission]) as soon as the contract is complete, and all remaining chemicals have been removed from the site.</li> <li>● Use pre-approved water treatment chemicals to ensure compliance with ST0004502 (RPP-RPT-59117).</li> </ul>                              |
| <b>4.0</b> | <b>Provide the following items below:</b>   |
| 4.1        | <p>Support (i.e., FWS, Craft, etc.) for work package and procedure development as required. The work package and procedure development process may include but not limited to the following.</p> <ul style="list-style-type: none"> <li>● Meetings (i.e., Team planning, Joint Review Group (JRG), etc.).</li> <li>● Walk down/field verification.</li> <li>● Support changes to work packages and procedures as required.</li> </ul> |
| 4.2        | Tools, below-the-hook rigging, safeguards, signs, barricading, and site trained personnel. Contractor is responsible to ensure each personnel are current on required training to perform the work scope.   |
| <b>5.0</b> | <b>Dispose of the following items below:</b>  |
| 5.1        | Waste in accordance with the waste planning checklist.  |
| <b>6.0</b> | <b>Comply with the following items below:</b>   |
| 6.1        | WA State requirements Chapter 70.79 and RCW Chapter 296-104 for boiler inspections. The high-pressure boiler will require an annual tear down and inspection. The two (2) low pressure boilers will require a biennial tear down and inspection, and the deaerator system will require a biennial tank inspection.  |