

**SCHEDULED MAINTENANCE ON
AIR COMPRESSORS LOCATED AT
THE MITCHELL CSMS #1, RAPID
CITY CSMS #2, SOUTH DAKOTA
– EXHIBIT A, STATEMENT OF
WORK (SOW)**

PART 1 - GENERAL

1.01 General Requirements

1. All personnel performing the services included in this specification shall meet the following applicable experience and certifications:
 - a. All services on air compressor(s) and air dryer equipment shall be performed or directly supervised by an original equipment manufacturer factory trained and certified technician with a minimum of 5 years of Champion, Quincy, Ingersoll Rand and ZEKS air compressor/dryer installation, start up, maintenance, and repair experience.
2. The South Dakota Army National Guard (SDARNG) work week is Tuesday through Friday from 6:30 AM to 5:00 PM. The Contractor will only be allowed access to each facility during these hours.
3. Prior to any work beginning, review the equipment and procedure schedules and submit to the SDARNG Construction and Facilities Management Office (CFMO) a work schedule that clearly defines the dates that each service shall be rendered at the facility.
 - a. The Contractor shall notify the CFMO 72 hours prior to any deviation from the submitted work schedule.
 - b. Any work performed prior to providing a work schedule or 72-hours notice will be at the Contractor's expense.
4. Prior to any work beginning, designate a single point of contact who is authorized to sign the Contractor Verification Form (to be provided by the CFMO) and who will be the point of contact for any issues.
5. Prior to any work beginning, attend a Pre-Maintenance Meeting with the CFMO's Preventive Maintenance Manager at Camp Rapid at a time to be agreed upon by the Contractor and the CFMO.
 - a. The Contractor shall submit their work schedule, single point of contact, Certificates of Insurance, and employer ID number (W-9) to the CFMO at or before this meeting.
 - b. Any work performed prior to the Pre-Maintenance Meeting will be at the Contractor's expense.
6. Prior to authorization of payment, along with an itemized invoice and signed state voucher, submit to the CFMO a completed, typed, and signed Contractor Verification Form (a Microsoft Office Excel Worksheet .xlsx file provided by the CFMO).
 - a. Any deficiencies found while rendering services shall be reported immediately, as well as noted on the Contractor Verification Form.
 - b. The Contractor Verification Form shall include the services rendered, a list of the consumables, supplies, and materials used, any deficiencies that were found, and recommendations.

1.02 Locations:

The Contractor shall perform the Required Services at the following SDARNG facilities:

National Guard CSMS #1, 1215 Industrial Rd, Mitchell, SD 57301

National Guard CSMS #2, 1205 E Catron Blvd, Rapid City, SD 57702

1.03 Required Services:

1. Render all services listed in Part 3 upon the equipment listed in Part 2 during the scheduled month as prescribed per item in Part 3.
2. Cleaning supplies and solvents shall be accompanied by corresponding Material Safety Data Sheets.
3. Installed parts shall be new and meet or exceed original equipment manufacturers specifications, subject to approval by the CFMO. The Contractor shall be responsible to obtain a purchase order from the CFMO prior to purchasing or installing any parts outside of the work described in this document.
4. The Contractor shall provide 12 month unlimited warranty from the date of service or installation on all installed parts and materials. The Contractor shall make repairs as needed at no additional cost if the repair is caused by poor workmanship or faulty parts and/or materials.
5. Procurement of consumables/supplies/materials per manufacturer requirements per operation and maintenance manuals for services to be performed on the equipment shall be sole responsibility of the Contractor.
 - a. Payment for consumables/supplies/materials shall be considered incidental with no additional payment or reimbursement allowed.

PART 2 - MATERIALS

2.01 Equipment Schedule:

The Contractor shall perform services as defined in Parts 1 and 3 of this document on the following list of equipment.

1. Mitchell CSMS #1 Air Compressor List includes, but is not limited to:
 - a. Champion Air Compressor, Model Number D40, Serial Number #D243426
 - b. Champion Air Compressor, Model Number D40, Serial Number #D243427
 - c. Ingersoll Rand Dryer, Model Number TMS 0380, CCN# 42528927
2. Rapid City CSMS #2 Air Compressor List includes, but is not limited to:
 - a. Quincy Compressor, Model Number QSI-300i, serial number # UTY301746
 - b. ZEKS HeatSink Tru-Cycling Air Dryer, Model Number 250HSGAF00, Serial Number# WCH1000835

PART 3 - EXECUTION

3.01 Procedure Schedule:

All Facilities:

1. Air Compressor Procedure list for Quincy QSI-300i to be performed **March** and **September** (Follow manufactures recommended inspection to include the following):
 - a. Drain water from air/fluid reservoir.
 - b. Check for fluid/oil leaks.
 - c. Check for unusual noise or vibrations.
 - d. Clean air filter.
 - e. Clean fluid /oil cooler fins with compressed air/vacuum.
 - f. Wipe down entire unit to remove dust.
 - g. Perform oil (fluid) sample and provide results to the contact(s) provided for each location listed under 1.02. If an oil change is required, send a quote for repairs to the point of contact for the South Dakota Department of the Military.
 - h. Change fluid/oil filter.
 - i. Inspect control lines and repair as needed.
 - j. If defects are found, send a quote for repairs to the point of contact for the South Dakota Department of the Military.
2. Air Compressor Procedure list for Quincy QSI-300i to be performed **March** (Follow manufactures recommended inspection to include the following):
 - a. Replace air/fluid separator elements.
 - b. Check all bolts for tightness.
 - c. Lubricate motors with manufactures recommended lubricant.
 - d. Check safety (HAT) shutdown system(s).
 - e. Test pressure relief valve for proper operation.
 - f. If defects are found, send a quote for repairs to the point of contact for the South Dakota Department of the Military.
3. Air Compressor Procedure list for Quincy QSI-300i to be performed at **8,000 hour intervals**:
 - a. Provide a quote every 8,000 hours (of operation) to replace the fluid/oil to the point of contact for the South Dakota Department of the Military.
4. Air Compressor Procedure list for Champion D40 to be performed **March** and **September** (Follow manufactures recommended inspection to include the following):
 - a. Check air/oil reservoir oil level. If oil is needed and none is available, send a quote for repairs to the point of contact for the South Dakota Department of the Military.
 - b. Check operation of the machine to verify that it is loading and unloading properly.
 - c. Check discharge pressure and temperature.
 - d. Check control panel for advisory text messages.
 - e. Check/clean oil/aftercooler core faces and the cooling fan. Clean with compressed air carrying a nonflammable safety solvent that will not damage aluminum in the opposite direction of the normal air flow.
 - f. Replace the oil filter element, air filter element, control box filter (if applicable) and clean the cool air inlet filter (as indicated by the compressor controller).
 - g. Perform oil sample and provide results to the point of contact for the South Dakota Department of the Military. If an oil change is required, send a quote for repairs to the point of contact for the South Dakota Department of the Military.
5. Air Compressor Procedure list for Champion D40 to be performed **March** (Follow manufactures recommended inspection to include the following):
 - a. Visually check for leakage on the air end shaft seal & replace as required.

- b. Replace air/oil separator.
 - c. Inspect the scavenger line, replace the check valve and clean or replace the scavenge line of necessary.
 - d. Inspect the intake valve, verify operational condition.
 - e. Inspect the minimum pressure /check valve operation.
 - f. Check pressure relief valve.
 - g. Inspect the condensate drain.
6. Air Compressor Procedure list for Champion D40 to be performed at **4,000 hour intervals**:
- a. Provide a quote every 4,000 hours (of operation) to replace the oil to the contact(s) provided for each location listed under 1.02.
7. Air Compressor Procedure list for Champion D40 to be performed at **8,000 hour intervals**:
- a. Inspect solenoid valves/vacuum switch operation.
 - b. Inspect blow-sown valve operation.
 - c. Inspect thermistor probes operation.
 - d. Inspect pressure transducer.
 - e. Inspect control valves and pressure regulator.
 - f. Inspect thermal mixing valve operation.
 - g. Inspect drive coupling spider.
 - h. Inspect hoses/tubes.
8. Air Dryer Procedure list to be performed **March** and **September** (Follow manufactures recommended inspection to include the following):
- a. Verify the temperature on the control panel display is acceptable.
 - b. Visually check if the condensate is draining properly.
 - c. Clean the condenser with compressed air and vacuum, taking care not to damage the condenser fins.
 - d. Check the condition of all filters.
 - e. Check for air leaks in air dryer and connecting pipes from the air compressors.
 - f. Verify dryer is working properly.
 - g. If defects are found, send a quote for repairs to the point of contact for the South Dakota Department of the Military.