

		National Defence Défense Nationale	Back to the DID List
DATA ITEM DESCRIPTION - DESCRIPTION DE DONNÉES			
1. TITLE – TITRE		2. IDENTIFICATION NUMBER - NUMÉRO D'IDENTIFICATION	
DEPOT MAINTENANCE PLAN		DID 3.8.1	
3. DESCRIPTION / PURPOSE – DESCRIPTION / OBJET			
The Depot Maintenance Plan shall provide a detailed description of the method of managing and performing Repair and Overhaul of authorized equipment and to ensure that the required maintenance is performed in accordance with standard practices and procedures as described in D-02-002-003/SG-000.			
4. APPROVAL DATE DATE D'APPROBATION	5. OFFICE OF PRIMARY INTEREST (OPI) BUREAU DE PREMIERE RESPONSABILITÉ (BPR)	6. GIDEP APPLICABLE D'ÉCHANGE DE DONNÉES PERTINENT	
September 2020	NWSO Technical Authority (TA)		
7. APPLICATION / INTERRELATIONSHIP – APPLICATION / INTERDÉPENDANCE			
CDRL-3.8.1 and SOW paragraphs 3.8.1 refer. D-02-002-003/SG-000 and NWSSC Logistics Operating Instructions refer. This DID contains the format and content preparation instructions for the data generated under the work tasks described in the NWS O&M SOW.			
8. ORIGINATOR - AUTEUR		9. APPLICABLE FORMS - FORMULES PERTINENTES	
NWSO TA			
10. PREPARATION INSTRUCTIONS – INSTRUCTIONS SUR LA PRÉSENTATION DES DONNÉES			
10.1 <u>Source Document</u> NWS O&M SOW Section 3, paragraphs 3.8.1.			
10.2 <u>Content and Format</u>			
10.2.1 The Contractor shall perform Depot level maintenance and repair of Line Replaceable Units (LRUs) and Shop Repairable Units (SRUs) at the NWSSC to sustain the following NWS equipment and systems:			
10.2.1.1 AN/FPS-124 radar (including software maintenance, modification, refinement and firmware);			
10.2.1.2 On-site communications (including, but not limited to, SAVMS/VMN, PA system, PBX, PLC.);			
10.2.1.3 LHCN;			
10.2.1.4 NWSSC maintenance equipment;			
10.2.1.5 ATE hardware including Test Program Sets (TPS);			
10.2.1.6 SCADA and associated site sensor systems;			
10.2.1.7 AWOS;			
10.2.2 The Depot Maintenance Plan shall be prepared and delivered in Contractor format. The Plan shall describe in detail the Contractor's method of managing and performing repair and overhaul on all equipment for which it has been authorized. All repairs shall conform to instructions in D-02-002-003/SG-000 "Standard for Repair and Overhaul of Ground Radar, Navigation Aids and Ancillary Equipment by Civilian Contractors". Repair of LRUs and SRUs shall include software maintenance and/or system integration testing as appropriate. All labour and material for these repairs shall be provided by the Contractor.			

10.2.3 The Plan shall detail the functional areas of the NWSSC repair and overhaul activity and describe, but not limited to:

- a. Procedures for assigning a "criticality rating" for each repairable item received at the NWSSC;
- b. Procedures for determining and assigning repair priorities for each repairable item received at the NWSSC;
- c. Methods for marking and identifying repairable items as they are cycled through the NWSSC;
- d. Methods of identifying all repairable items:
 - (1) on hand at the NWSSC awaiting repair,
 - (2) on hand at the NWSSC in process of being repaired,
 - (3) on hand at the MWSSC awaiting repair pending receipt of repair parts,
 - (4) on hand, repaired, awaiting serviceability verification,
 - (5) on hand, repaired, serviceability verified, awaiting shipment,
 - (6) shipped,
 - (7) transitioned through the NWSSC and forwarded to an "Outside Repair Agency" (ORA), and
 - (8) received from ORA repair and on hand at the NWSSC;
- e. Means of identifying and tracking items modified by the WSSC or ORB;
- f. Means of tracking piece part consumption;
- g. Accountability of piece part usage and labour required to return a repairable item to a fully serviceable state;
- h. Functional description of the "elements" of the repair and overhaul process i.e. receipt/cleaning/fault analysis/component replacement/serviceability check/quality control;
- i. Stages of Quality Control throughout the repair process;
- j. Subcontracting process for "Outside Repair Agency" repair; and
- k. A repair and test scheme for each repairable item.

10.2.4 The Depot Maintenance Plan shall include the following four (4) reports per repair quarter:

- a. NWSSC Repair Summary Report;
- b. NWSSC Repair and Overhaul Report;
- c. Non-NWSSC Repairable Repair and Overhaul Vendors List; and
- d. Software Maintenance Summary Report.

10.2.5 NWSSC Repair Summary Report

The Report shall be prepared and delivered quarterly in Contractor format. The Contractor shall provide the following information on all equipment cycled through the NWSSC or ORA for repair, overhaul or modification. For each type of repairable, the Report shall include:

- a. NSN or OEM part number;
- b. Parent (next higher) assembly;
- c. Number of corrective actions on this type of repairable;
- d. Total number of manhours expended on this type of repairable;
- e. Average number of manhours expended on this type of repairable;
- f. Average turn-around time on this type of repairable (excluding transportation);
- g. Status of unique piece parts for this type of repairable (critical items):
 - (1) number and types consumed; and
 - (2) number and types remaining in stock.

For all types of repairables include the following information:

- a. Status of common repair piece part spares;
- b. Status of Accountable Advance (AA) spares; and
- c. Recommendations.

The information defined by the content above shall be capable of being sorted according to repairable type, critical piece parts for each type of repairables and provide a consumed/remaining status for common piece part spares as defined by the NWSO request. Format shall be tabular in nature with the 1st column determined by the sort requested.

10.2.6 NWSSC Repair and Overhaul Report

The Report shall be prepared and delivered quarterly in Contractor format. The report shall provide the following information on all items processed through the NWSSC or through an "Outside Repair Agency" (ORA) quarter:

- a. NSN or OEM part number;
- b. Serial number (where applicable);
- c. Parent (next higher) assembly;
- d. Present status (i.e. return to service, spare, beyond economical repair (BER), under repair, awaiting parts, forwarded to ORA, etc);
- e. Modification status (i.e. mods up-to-date; if mods installed, by whom? NWSSC or ORA, mod recorded and mod label affixed);
- f. Present location of part (i.e. depot stock, LSS stock, on repair line, at ORA, installed at (site));
- g. Labour time to repair; and
- h. Component(s) consumed to effect repair (N/A ORA repair).

10.2.7 Non-NWSSC Repairable Repair and Overhaul Vendors List

The Report shall be prepared and delivered quarterly in Contractor format. The Report shall provide a summary listing of all repair and overhaul vendors maintaining equipment beyond the capabilities of the NWSSC. The Report shall:

- a. Identify components of the AN/FPS-124 UAR, WCN and the PGS controller which cannot be repaired at the MWSSC;
- b. Identify repair and overhaul vendors for each component identified in a: and
- c. Provide estimated vendor repair time for each component identified in a.

10.2.8 Coordinate third party external R&O.

10.2.8.1 Receive, evaluate condition status and distribute assets of any equipment not supported at the Maintenance Support Facility to the appropriate OEM or alternate repair facility as determined by the Contractor. Handling and transportation is covered under in this SOW.

10.2.8.2 Coordinate R&O activities for USAF furnished NWS AN/FPS-117 radar and G/A/G radio LRUs and sub-assemblies

10.2.8.3 Receive, evaluate condition status and distribution of assets for 11 FPS-117 radars and 157 G/A/G radios to the appropriate OEM or repair facility as determined by the USAF. Handling and transportation is covered under this SOW.

10.2.9 Third Party R&O Vendor List

10.2.9.1 The Contractor shall prepare and administer a Third Party R&O Vendor list. The report shall provide a summary listing of all repair and overhaul vendors maintaining equipment beyond the capabilities of the NWSSC. The report shall identify:

- 10.2.9.1.1 Repairable items which cannot be repaired at the NWSSC;
- 10.2.9.1.2 R&O vendors for each component identified in a; and
- 10.2.9.1.3 Estimated vendor repair time for each component identified in a.

10.2.10 Evaluate Third Party Repair and Overhaul (R&O)

10.2.10.1 The Contractor shall receive and validate repaired Canadian and USAF assets from the OEM or authorized repair facility prior to shipment to NWS locations, including:

- 10.2.10.1.1 AN/FPS 117 radar;
- 10.2.10.1.2 G/A/G radios; and
- 10.2.10.1.3 All ORA assets.

10.2.10.2 The Contractor shall generate Quality Deficiency Reports (QDRs) and Supply Deficiency Reports (SDR) for G/A/G radio and AN/FPS-117 and AN/FPS-124 radar deficiencies for failed components received from the OEM or authorized repair facility.

10.2.11 Repair Summary Report

10.2.11.1 The Contractor shall prepare a summary report for all repairable items cycled through the NWSSC or ORA for repair, overhaul or modification.

10.2.12 NWSSC R&O Report

10.2.12.1 The Contractor shall prepare a summary report for all repairs processed by the NWSSC or through an ORA.

10.2.13 Software Maintenance Summary Report

The Report shall be prepared and delivered quarterly in Contractor format. The Report is a summary of software maintenance activities performed at the NWSSC or at outside agencies. The Software Maintenance Summary Report shall include:

- a. Prioritized list of Computer Program Configuration Items (CPCIs) being modified at the NWSSC or other agencies. It shall identify and describe the affected system/version/sub-version with a brief description of the software maintenance performed on each CPCI;
- b. The location where the CPCI modification took/will take place;
- c. Name, designation, and telephone number of the person responsible for each CPCI modification not completed;
- d. Completion percentage for each CPCI authorized for modification;
- e. The amount of time spent or to be spent on each modification and combined total time spent;

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| <ul style="list-style-type: none">f. The start date, completion date or estimated completion date for each CPCI modification;g. The number of lines of code changed or estimated to be changed for each CPCI modification;h. The total manhours expended for each GPCI and a combined manhour total; andi. Recommendations to improve software maintenance activities (test equipment, procedures). |
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