



NATO SUPPORT AND PROCUREMENT AGENCY
AGENCE OTAN DE SOUTIEN ET D'ACQUISITION



LOGISTICS OPERATIONS

STATEMENT OF WORK FOR PRODUCTION AND SUPPLY OF

**HAWK MISSILE BATTERIES
P/N 10181788
(NSN 6135-00-484-8556)**

Revision History

Revision	Date	Changes
IR	15/06/2023	

TABLE OF CONTENT

1. SCOPE	3
2. REFERENCE DOCUMENTS	3
2.1. DOCUMENTATION.....	3
2.2. APPLICABLE DOCUMENTS.....	3
2.2.1. NATO DOCUMENTS.....	3
2.2.2. DRAWINGS, SPECIFICATIONS AND PRODUCTION DOCUMENTS	3
2.3. PRECEDENCE	4
3. QUALITY ASSURANCE.....	4
3.1. INSPECTION.....	4
3.2. DELIVERY SCHEDULE	4
3.3. PREPARATION FOR SHIPMENT	5
4. DELIVERY AND TRANSPORTATION REQUIREMENTS	5
4.1. SCOPE	5
4.2. PREPARATION FOR SHIPMENT	5
4.3. DELIVERY AT NSPA FREIGHT FORWARDER	5
4.4. ADDRESS MARKINGS	6
4.5. MODES OF TRANSPORTATION.....	6
4.6. SHIPPING DOCUMENTS	6
ANNEX 1	7

1. SCOPE

This Statement of Work (SOW) defines the requirements for production and supply of HAWK missile batteries P/N 10181788, NSN 6135-00-484-8556.

The SOW also describes the technical specifications and requirements for production, testing, certification, packing and delivery of the material.

2. REFERENCE DOCUMENTS

2.1. DOCUMENTATION

The production of the items described in the SoW shall be performed in accordance with the approved configuration Technical Data Package (TDP). The approved configuration for the NATO HAWK use is described in Para. 2.1.2 below.

2.2. APPLICABLE DOCUMENTS

The following documents of the issue in effect on the date of production are applicable to this SOW to the extent specified therein:

2.2.1. NATO DOCUMENTS

AQAP-2110	NATO Quality Assurance Requirements for Design, Development and Production
PN/STC 10181788	NATO HAWK Special Technical Conditions for Quality Conditions of item P/N 10181788, Rev. JD (Annex 1)

2.2.2. DRAWINGS, SPECIFICATIONS AND PRODUCTION DOCUMENTS

Technical Data Requirements for HAWK Missile batteries P/N 10181788, NSN 6135-00-484-8556.

Drawing Data:

Type	Size	Number	Sheet of Sheet	Revision
AS	E	10181788	001 THRU 004	R
CLS	A	10181788	001/001	E

- NHRR (Nato Hawk Release Record). It can be provided by NSPA upon contractor request
- FAICR required
- Qualified source required
- Packing Level: B

- Manufacturer serialized required
- Classified: NO
- SDS required YES

Notice: The complete requirement for producing this item shall consist of the drawings and documentations content in the TDP and the issue in effect of the specifications in their latest updated version.

2.3. PRECEDENCE

In the event of conflict between the SOW and any of the above referenced NATO documents, the SOW shall take precedence.

3. QUALITY ASSURANCE

The production of the material shall be performed in accordance with AQAP 2110. The final inspection shall be performed in accordance with AQAP 2110. When so requested in a Purchase Order, AQAP 2110 shall be applicable for inspection and testing.

For each production lot, the Contractor shall provide a copy of the First Article Inspection done by the manufacturer, and Configuration Review (FAICR) document.

The Contractor shall provide a proof of his certification or the manufacturer certification for production of the required items for the HAWK Missile application done on a previous production lot. If not available, the new product shall be qualified according to the TDP requirements, specifications described in para 2.1.1 (Annex 1) and drawings, specifications and production documents described in para 2.1.2 prior to shipment.

The Contractor shall certify that all the required tests mentioned in the drawings are conducted. Unless otherwise stated in a Purchase Order (PO), Government Quality Assurance shall not be required and conformity of the product-to-product requirements will be stated by the Contractor in a “**Certificate Of Conformity**” (**COC**).

The contractor, along with the referred Certificate of Conformity, shall provide all required production lot documentation, as indicated per the documents in 2.1.2, allowing the production identification of each individual element produced.

The contractor's CoC shall include a statement that the material supplied is 100% compliant with the Technical Data Package referred in the SoW.

3.1. INSPECTION

Subject to prior notification and in accordance with ITAR and all other licensing provisos and requirements, NSPA shall have the right to inspect for final testing or delivery inspection the ordered production lots at the Contractor's location.

3.2. DELIVERY SCHEDULE

The contractor shall provide a delivery schedule for each of the items listed in the SoW. The delivery schedule shall indicate the production and the delivery time of the items required.

The maximum acceptable lead-time shall not exceed nine (9) months after receipt of order (ARO) for quantity of one hundred (100) each of the items required. Partial deliveries are accepted (i.e. 20 each per shipment).

3.3. PREPARATION FOR SHIPMENT

To ensure safe transportation, the Contractor shall perform preservation and packaging of the delivered item to protection Level B of MIL-E-17555. In the event that electrostatic discharge-sensitive components are included in the produced items, appropriate national procedures for the handling, packaging, identification and marking of such sensitive items shall be applied.

The Contractor shall mark containers and boxes in accordance with MIL-STD-129 and, as a minimum, will include the following details:

- a) Material Transfer Request Number (Assigned by NSPA)
- b) Contract and Purchase Order Numbers
- c) Maintenance Requirement Number
- d) Part Number and NATO Stock Number
- e) Serial Number
- f) Quantity and Unit of Issue

4. DELIVERY AND TRANSPORTATION REQUIREMENTS

4.1. SCOPE

This section describes the specific requirements applicable to all delivery and transportation activities. The Contractor shall meet these requirements in addition to the requirements of the Contract Terms and Conditions and General Provisions for Fixed Price Contracts (Material).

All the shipments shall be executed in accordance with –the PO Terms & Conditions.

4.2. PREPARATION FOR SHIPMENT

To ensure safe transportation, the Contractor shall perform preservation and packaging of the delivered item to protection Level B of MIL-E-17555. In the event that hazardous or explosive components are included in the item, appropriate national procedures for the handling, packaging, identification and marking of such sensitive items shall be applied for airfreight of the material.

The Contractor shall mark containers and boxes in accordance with MIL-STD-129 and, as a minimum, will include the following details:

- Contract and Purchase Order Numbers
- Part Number and NATO Stock Number
- Serial Number
- Quantity and Unit of Issue

4.3. DELIVERY AT NSPA FREIGHT FORWARDER

If the production facility is located in the USA, NSPA requests in the Purchase Order, FCA Contractor's Facilities (INCOTERMS 2020) for delivery of the ordered material to the NSPA designated Freight Forwarder in the USA. The freight forwarder will perform all formalities to

obtain the required export licenses and will perform final shipment of the material from the US to the final destination.

4.4. ADDRESS MARKINGS

Shipments from the Contractor shall be dispatched in accordance with the Purchase Order, and shall bear the destination address markings specified by NSPA, in accordance with MIL-STD-129.

4.5. MODES OF TRANSPORTATION

In case the contractor will be responsible for delivery to the final destination, shipments will normally be routed by the fastest mode of transportation available i.e. air cargo.

4.6. SHIPPING DOCUMENTS

The following information shall appear on all shipping documents and associated correspondence for each item processed under this Contract:

- a) Nomenclature
- b) Part number and NATO stock number
- c) Serial number
- d) Quantity and unit of issue
- e) Contract number and purchase order number
- f) Value of the consignment in Contract currency (for customs purposes only)
- g) Number of shipping containers
- h) Weight and volume of consignment, in metric units
- i) Shipping address

ANNEX 1

(8 PAGES)



STC

SPECIAL TECHNICAL AND QUALITY CONDITIONS NATO HAWK PROCUREMENT

STC: 10181788

REV: JD

Page 1 of 8 Pages

BATTERY, SQUIB ACTIVATED

1. GENERAL

- 1.1 These STC set forth requirements pertaining to the manufacture and test of the item(s) to which the contract makes reference.
They are an integral part of the reference dossier.
- 1.2 In the event of any conflict between this document and others which are applicable to the order, the contractor shall request NSPA for clarification and direction.
Special attention shall be focused to items for which life time limitations apply, even if not mentioned or specified on technical documents provided with the contract.

2. CONFIGURATION REQUIREMENTS

- 2.1 The contractor has the responsibility to maintain the configuration as described in the reference dossier.
When he thinks that a change is appropriate, he shall submit to NSPA or NSPA's representative (GQAR) as applicable, the NH Form 128 (NATO HAWK Notice of Adaptation) for approval of the adaptation, according to the procedures described in GTIR para. 6.
- 2.2 Such possible changes may concern raw materials and/or manufacturing processes.
Approval of NSPA will be given only when the contractor demonstrates that substitute material and/or processes will result in item(s) having equivalent to or better characteristics than the originally requested.
Refer to para. 4 of the GTIR.

NOTE for painting:

Where the drawings and/or specifications call for:

a) Exterior topcoat:

Painting in accordance with MIS 37252, type I, 383 green, color 34094 of FED-STD-595 (all equipment).

This paint scheme replaces the following original paint scheme:

- Olive drab color N° 34087 or 34088 of FED-STD-595, MIL-E-46096 (replaced by the cancelled specification MIL-C-46168 and by the inactive specification MIL-C-53039, type I (Missile only).
- Olive drab color N° 24087 or 24084 of FED-STD-595, TT-E-529, type I, A-A-2962 (Ground Equipment only).

(Note: TT-E-529 and A-A-2962 are both cancelled).

b) Interior topcoat:

Painting with green color N° 24525 of FED-STD-595, MIL-PRF-22750, type I.

This paint scheme replaces the following original paint scheme:

- Green color N° 24525 of FED-STD-595, TT-E-529, type I, A-A-2962.

NSPA/LD/H

Signature:

Date: 19.02.2014

NSPA/LD/H System Mngtr Approval

Signature:

Date: 19.02.2014



STC

SPECIAL TECHNICAL AND QUALITY CONDITIONS NATO HAWK PROCUREMENT

STC: 10181788

REV: JD

Page 2 of 8 Pages

BATTERY, SQUIB ACTIVATED

3. DANGEROUS PRODUCTS

3.1 The supplies under this order may concern dangerous and/or harmful products which are classed, in decreasing order, as follows:

Code	Risk
T+	Very toxic
T	Toxic
R	Radioactive
E	Explosive
O	Oxidant
F+	Extremely flammable
F	Easily flammable
C	Corrosive
Xn	Harmful
Xi	Irritant

3.1.1 In case the supplies are concerned by any (or more) of the above risks, the outside of the packing as well as the shipping documents shall be clearly marked with both the appropriate code(s), and the international symbol(s) for the risk.

3.1.2 The substances listed below are not authorized for delivery as end-products and must not be contained in the supplies:

Code	Product
T+	Beryllium oxide, Beryllium fluoride, Beryllium sulfate, Asbestos
T, F	Benzene
T	Lead and/or chromate based paints
Xn	Tetrachloroethylene, Trichloroethane, Trichloroethylene,
	Polychlorinated Biphenyl (PCB)
Xi	CFC 12 (FREON R12)

NOTE: If it is not possible to manufacture the item ordered without making use of these products, a corresponding request for deviation, duly justified, must be introduced.
Any violation will result in return of the supplies and cancellation of the contract.

3.2 If a specific product/material is not part of the above list but it is reputed dangerous or is no longer authorized for use, following changes in environmental policy, the contractor shall inform NSPA/LD/H accordingly and provide appropriate documentation.

3.3 Supplied material, consumable or not, must be accompanied, when necessary, by a Material Safety Data Sheet (MSDS) as required and described in the ECC Directives N° 92/32 and subsequent modifications.

NSPA/LD/H

Signature:

Date: 19.02.2014

NSPA/LD/H System Mngr Approval

Signature:

Date: 19.02.2014



STC

SPECIAL TECHNICAL AND QUALITY CONDITIONS NATO HAWK PROCUREMENT

STC: 10181788

REV: JD

Page 3 of 8 Pages

BATTERY, SQUIB ACTIVATED

4. QUALITY ASSURANCE REQUIREMENTS

4.1 In case of manufacture / production:

4.1.1 Unless the contract specifies AQAP 2131 "NATO QUALITY ASSURANCE REQUIREMENTS FOR FINAL INSPECTION" without GQAR but with Certificate of Conformity, the contractor shall establish, document and maintain an effective and economical quality system in accordance with AQAP 2120 "NATO QUALITY ASSURANCE REQUIREMENTS FOR PRODUCTION", which includes the requirements of ISO 9001. Demonstration of conformance to these requirements shall be provided, upon request, to the GQAR and/or NSPA.

4.1.2 The contractor shall establish a Quality Plan (QP) in accordance with para. 10.2 of the GTIR.

Before initiating the production, this QP, after having been reviewed, commented and signed by the GQAR, shall be forwarded for final approval to the address mentioned in para. 11.2 below.

4.1.3 The contractor is free to manufacture the supplies himself, or through subcontracting.

If he prefers to sub-contract, he must inform his GQAR and NSPA about the sub-contract number, name and address of the actual manufacturer for approval.

Sub-contracting does not diminish the responsibility of the contractor nor does it change the requirements of the present STC.

4.1.4 Quality assurance activities will be performed under the supervision of the GQAR who shall certify the validity of inspection and/or testing.

4.1.5 Non conforming material, if any, will be treated in accordance with para. 12. of the GTIR

4.1.6 Components and/or assembly processes not described by the contract shall be in conformity with the contractor production drawings as well as his company's quality assurance manual.

4.1.7 The contractor shall keep the procedures, inspection tests reports, discrepancy reports, etc., which are relevant to this contract for a 5-year-period after finalization of the contract.

He shall furthermore place these documents at the disposal of the GQAR and NSPA upon request.

4.1.8 Quality control operations shall be performed in accordance with para. 11 of the GTIR.

NSPA/LD/H

Signature:

Date: 19.02.2014

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STC

**SPECIAL TECHNICAL AND QUALITY CONDITIONS
NATO HAWK PROCUREMENT**

STC: 10181788

REV: JD

Page 4 of 8 Pages

BATTERY, SQUIB ACTIVATED4.2 In case of "Off-the-shelf" deliveries:

4.2.1 In case the contractor proposes supplies which were already manufactured prior to the establishment of the contract and/or if the supplies concern "Standard", continuously manufactured, item(s) then subject to approval by the GQAR and NSPA:

- The required level of Quality Assurance will be AQAP-2131 or equivalent and test data are required, signed by the original manufacturer and, where specifically requested, by the GQAR.

NOTE: The need for GQAR endorsement will be indicated in the contract.

5. FAICR AND/OR QUALIFICATION

5.1 When AQAP-2120 is required, FAICR (First Article Inspection and Configuration Review) is **mandatory**, whatever qualification requirements are.

A FAICR, normally associated with the production of a complex article, has to be established according to para. 15 of the GTIR.

Nevertheless, this guideline has to be adapted to the diversity of articles to be produced.

Consequently, it is the responsibility of the manufacturer and also in his interest to make contact with the addressee mentioned in para. 11.2 below well ahead of production in order to agree in advance on the FAICR content.

This can be achieved by the submission of a preliminary draft of the activities foreseen to be performed within the FAICR activities.

5.2 Qualification on an item:

The definition dossier may require a qualification.

In this case, if not already qualified for this product, the contractor/manufacturer shall establish a qualification program in accordance with para. 13 of the GTIR to be included into the QP.

The qualification program shall be such that all requirements of the definition dossier are verified for conformity, including satisfaction to the environmental conditions.

5.3 No satisfaction to the qualification requirements shall result in cancellation of the contract, without any prejudice to NSPA.

Qualification must be obtained prior to performing technical acceptance of the supply.

NOTE: The contract/manufacturer is free to propose reduction to the qualification program, in case that the item(s) concerned, or similar one(s), where recently and successfully, submitted to tests which are deemed comparable to the required ones.

Justifications, such as tests reports, shall be provided to NSPA duly approved by the GQAR.

Written approval of NSPA is required for any decrease in qualification requirements.

NSPA/LD/H

Signature:

Date: 19.02.2014

NSPA/LD/H System Mngr Approval

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Date: 19.02.2014



S T C

**SPECIAL TECHNICAL AND QUALITY CONDITIONS
NATO HAWK PROCUREMENT**

STC: 10181788

REV: JD

Page 5 of 8 Pages

BATTERY, SQUIB ACTIVATED**6. TOOLING AND TEST EQUIPMENT**

- 6.1 HAWK specific tooling, test equipment and/or chassis indispensable for the execution of the contract, if and where called for by the definition dossier, will be put at the disposition of the contractor, either physically or made available at a military unit/depot at no cost.

NOTE: Maintenance, calibration and operating costs will be at the contractors charge.

7. NATO SERIALIZATION

- 7.1 For NATO serialized items an inspection procedure third category shall be established by the contractor in accordance with para. 11 of the GTIR. These inspection procedures shall be submitted to the address mentioned in para. 11.2 below and shall be approved by NSPA/LD/H before they are implemented.
- 7.2 Each item indicated as serialized in the contract and/or on the applicable NHRR, must bear a NATO serial number. The serial number to be applied to the supplies will be communicated to the manufacturer by NSPA and formalized by a contract amendment.
- 7.3 The serial number shall be applied as indicated on the applicable drawing(s) and/or the relevant Contractor Specification List (CSL) and preceded by the symbol SN. If not specified, the serial number shall be placed, if possible, near to the Part Number in a clearly visible area, free of other markings.
- 7.4 The marking shall be permanent and legible per MIL-STD-130 and may be the same as presently specified on the drawing for other identification marking. The method of application shall be optional if not specified elsewhere.
- 7.5 Use of provided NH-Forms 108 and 109 (NH-CDRs) is mandatory in accordance with para. 7.4.4.1 of the GTIR. These completed forms shall be part of the technical acceptance dossier (see para. 11.1 below).

NOTE: Failure to provide the serialization information together with the technical acceptance dossier may lead to delays in treatment of invoices for the item(s) concerned.

NSPA/LD/H


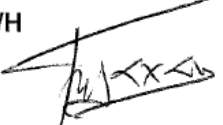
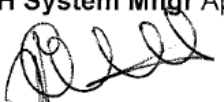
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Date: 19.02.2014

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	<p style="text-align: center;">STC</p> <p style="text-align: center;">SPECIAL TECHNICAL AND QUALITY CONDITIONS</p> <p style="text-align: center;">NATO HAWK PROCUREMENT</p>	<p>STC: 10181788</p> <p>REV: JD</p> <p>Page 6 of 8 Pages</p>
<p style="text-align: center;"><u>BATTERY, SQUIB ACTIVATED</u></p>		
<p>8. SPECIFIC REQUIREMENTS</p> <p>8.1 These items shall be in accordance with the requirements of the applicable drawing 10181788, specifications, MIL-STD-1168 (supersedes MIL-STD-1167), ANSI/ASQC Z1.4 (supersedes MIL-STD-105), MIL-STD-810 (supersedes MIL-E-5272), MIL-HDBK-454 (supersedes MIL-STD-454), all documents as indicated on the applicable definition dossier and all applicable internal documents at manufacturer's plant.</p> <p>8.2 Where applicable, the provisions of document AC/258-D/258 (or their substitutes) concerning << SAFETY ASPECTS OF TRANSPORTATION AND STORAGE OF MILITARY AMMUNITION AND EXPLOSIVES >> shall be applied during the contract.</p> <p>8.3 The use of << Franklin-Dale >> thermostats as temperature sensing elements in the battery heater circuits is not allowed.</p> <p>8.4 The contractor shall record all test results, in order to be able to carry out statistical studies, if so required. These test results concern the acceptance tests as defined, as well as the control of raw materials, intermediate tests, failure analysis and subcontracted activities, if any.</p> <p>8.5 The contractor shall set up a comprehensive failure analysis program and provide for corrective action studies to identify and correct any quality and/or reliability problem encountered during production and tests.</p> <p>8.6 Sub-contracting of manufacturing of the following components will require concurrence by the responsible GQAR, who will decide where and by whom the source inspection will take place:</p> <ul style="list-style-type: none"> - electrodes - electrolyte - thermostat(s) and heater(s) - squib and gas generator. <p>8.7 Samples will be randomly selected by the GQAR in accordance with note 23 of the drawing and will have to be sent for dissection purposes to an address to be communicated by NSPA/LD/H. Defects detected at dissection will require analysis and corrective actions by the contractor at no charge to NSPA. These corrective actions could include replacement under warranty of previously delivered batteries.</p> <p>8.8 Batteries presented for acceptance test shall have been manufactured less than six (6) months before.</p> <p>8.9 The contractor shall take all actions required pertaining to the management of raw materials, components and/or ingredients whose shelf life is limited. This control shall be extended to sub-contractors, if any.</p> <p>8.10 All production documentation shall be preserved by the contractor for at least fifteen (15) years following the last technical acceptance. NSPA shall have unlimited access to</p>		
<p>NSPA/LD/H</p> <p>Signature:  Date: 19.02.2014</p>	<p>NSPA/LD/H System Mngr Approval</p> <p>Signature:  Date: 19.02.2014</p>	

**STC**

**SPECIAL TECHNICAL AND QUALITY CONDITIONS
NATO HAWK PROCUREMENT**

STC: 10181788

REV: JD

Page 7 of 8 Pages

BATTERY, SQUIB ACTIVATED

this information during the period.

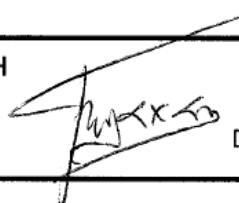
- 8.11 Ammunition data cards shall be provided, duly signed by the GQAR, in accordance with the requirements of MIL-STD-1168 (supersedes MIL-STD-1167). In deviation from article 5.11 of MIL-STD-1168 these Ammunition data cards shall only be provided to NSPA/LD/H to be included in the TAR as defined in paragraph 11 hereafter.

9. INSPECTION REQUIREMENTS

- 9.1 Technical acceptance operations shall include three phases:

- Verification by means of contractor generated (test) reports that all material and components are conform their technical definition as well as that the requirement of paragraph 8.8 above are respected.
- Verification that the items are in conformity with the configuration as defined.
- Performance of unit and sample tests:
 - 100% in accordance with note 3 and table I of drawing 10181788
 - sample tests in accordance with note 4 and table II of drawing 10181788

- 9.2 Periodic audits, pre-scheduled or non-announced, will be performed by the contractor together with the GQAR and/or NSPA/LD/H on selected activities. The audits initiated by NSPA and/or the GQAR shall be limited to a maximum of three per calendar year, increased whenever major discrepancies are found that require a failure analysis. The contractor shall furnish his internal audit plan at the start of the contract.

NSPA/LD/HSignature: Date: **19.02.2014****NSPA/LD/H System Mngr Approval**Signature: Date: **19.02.2014**

**STC**
**SPECIAL TECHNICAL AND QUALITY CONDITIONS
NATO HAWK PROCUREMENT**

STC: 10181788

REV: JD

Page 8 of 8 Pages

BATTERY, SQUIB ACTIVATED**10. TECHNICAL ACCEPTANCE OPERATIONS**

- 10.1 The supplies shall be in accordance with all requirements of the definition dossier as well as all applicable documents at the contractor facility and/or his sub-contractor(s) relating to the supply (para. 4.1.6 above).
- 10.2 The technical acceptance operations shall be performed in accordance with para. 17 of the GTIR taking into account the specific requirements of these STC (para. 8 and 9).

11. TECHNICAL ACCEPTANCE DOSSIER

- 11.1 The technical acceptance dossier (para. 17.6 of the GTIR) shall consist of at least a "Technical Acceptance Record and Certificate of Acceptance" (TAR) NH-Form 268 and any other relevant documents, duly certified/signed by the GQAR, such as FAICR report, NH-Forms 108 and 109 (NH-CDRs) and/or NH-RFD/RFW.
- 11.2 A copy of the complete technical acceptance dossier shall be sent to:

NATO SUPPLY AGENCY (NSPA/LD/H)
11, rue de la Gare
L-8325 CAPELLEN
LUXEMBOURG

Another copy of the technical acceptance dossier should accompany the delivery.

12. THE GENERAL TECHNICAL AND INDUSTRIAL RULES (GTIR)

The GTIR in the current revision are applicable except when in contradiction with the present document and when AQAP-2131 applies.

NSPA/LD/H

Signature

Date: 19.02.2014

NSPA/LD/H System Mngr Approval

Signature:

Date: 19.02.2014