



Department of Transportation and Communications
PUNONGHIMPILAN TANOD BAYBAYIN NG PILIPINAS
(Headquarters Philippine Coast Guard)
139 25th Street, Port Area
1018 Manila

HPCG/CG-3

08 Jul 2015

**STANDING OPERATING PROCEDURE
NUMBER 07-15**

**GUIDELINES ON THE UTILIZATION OF THE WEAPONS OF MASS
DESTRUCTION DETECTOR EQUIPMENT**

I. REFERENCES:

- A. Republic Act 9993 (The Philippine Coast Guard Law of 2009)
- B. EO No 57 (Establishing A National Coast Watch System, Providing For Its Structure and Defining The Roles and Responsibilities of Member Agencies In Providing Coordinated Inter-Agency Maritime Security Operations And for Other Purposes)

II. PURPOSE:

This SOP prescribes the general guidelines and procedures on handling and usage of special equipment for the detection Weapons of Mass Destruction (WMD) materials in connection with WMD proliferation, terrorism and other related activities.

III. OBJECTIVE:

- A. To ensure the proper utilization and employment of the radiation detectors for the control, detection and interdiction involving nuclear or other radioactive materials.
- B. To provide control measures when alarms are generated during inspection and boarding inspection.
- C. To institute measures on the proper maintenance of the radiation detectors to ensure its efficiency and operational status.

IV. APPLICATION:

This SOP shall apply to all PCG Units, Uniformed Personnel and Civilian Agents qualified to utilize/operate said equipment in the performance of his or her duties.

V. DEFINITION OF TERMS:

For purposes of this SOP, the following words and phrases shall be defined as:

- A. **CBRNE** – acronym for Chemical, Biological, Radiologic, Nuclear and Explosive.
- B. **Corrective Maintenance** – technical actions or event to put failed equipment back to operation in expeditious and efficient manner.
- C. **Civilian Agents** – Regular civilian agents who are involved in intelligence/counter-intelligence operations for the accomplishment of maritime law enforcement.
- D. **NCWC** – National Coast Watch Center.
- E. **NCWS** – acronym for National Coast Watch System. The central inter-agency mechanism for a coordinated and coherent approach on maritime security operations towards enhancing governance and awareness of the country's maritime domain.
- F. **Nuclear materials** – materials capable of splitting into partials by means of a chain reaction under specific technological conditions (Plutonium-239, isotopes of Uranium-233, 235, 238, thorium)
- G. **Preventive Maintenance** – technical actions that include periodic maintenance in accordance with Original Equipment Manual (OEM) requirement in support of ongoing equipment operations.
- H. **PCG Uniformed Personnel** – Regular member of the Philippine Coast Guard in the active service under the Department of Transportation and Communications.
- I. **Radiation control** - complex of measures that protect the health and safety of the people of the Philippines from the harmful effects of ionizing and non-ionizing radiation.
- J. **Radioactive materials** - radioactive material is material containing unstable (radioactive) atoms that emit radiation. Radioactive material may be a solid, liquid, or gas. Many of the types of radioactive material released into the

- K. **RIID** – acronym for Radiation Isotope Identification Device.
- L. **RSO** – acronym for Responsible Supply Officer.
- M. **SAO** – acronym for Supply Accountable Officer. Responsible for maintenance of records or safekeeping of PCG equipment and supply.
- N. **Special Equipment** – equipment associated with WMD detection and Identification or specialist equipment for detecting weapons of mass destruction (WMDs) including the detection of chemical warfare and toxic industrial chemical agents, radiological threats as well as tactical nuclear weapon detonations.
- O. **Technical Documentation Library**– the library that is kept and managed to enable personnel involved into technical support process to access technical information provided by Vendor in support of equipment or infrastructure. It ensures availability of other information relating to technical aspects of the equipment.
- P. **Training** - is a continuous process where Coast Guard personnel undergo classroom and field training to ensure sustainment tasks are performed by PCG technicians or other technicians to perpetuate the knowledge and skills required to support the effective operation of the equipment.

VI. GENERAL PROVISIONS:

- A. The special equipment shall be stored in a secured and suitable storage area.
- B. The PCG shall utilize the provided special equipment primarily for the intended use of such equipment by qualified personnel in accordance with established procedure.
- C. Only trained personnel to handle the said equipment shall operate, maintain and will be equipped in performing specified or related duties to or for sustainment of NCWC operations.
- D. Noting the sensitivity and value of said equipment, preventive maintenance shall form part of the duties of personnel provided or issued with such equipment.
- E. Periodic inspections and checks of special equipment by the RSO/Supply Officer must be conducted in accordance with manufacturer specifications. Immediate notice shall be provided to NCWC and SAO once corrective maintenance is not possible to keep the equipment operational, or when it is damaged or lost.
- F. The SAO/RSO shall maintain records of identified equipment and shall provide reports to CPCG (Attn: CG-11) of the status/condition of equipment periodically. As such, the technical documentation of this equipment shall also be kept by SAO as part of the whole system.

- G. In effecting interception, visits, search and apprehension of suspected vessels/water craft for specific maritime law enforcement violation(s), routine inspections or Port State Control inspection, every personnel/ team shall be equipped with these special equipment to aid in identification and protect boarding officers from the harmful effects of WMD exposure.
- H. Results of WMD scanning shall form part of every boarding report. These reports shall be incorporated to statistics collected every month.
- I. Positive identification of radiologic item/WMD should immediately be reported to proper authorities for proper disposition or action. Report should also immediately be given to NCWC/CGAC.
- J. Containers/storage/equipment/personnel positive of radiation should be immediately quarantined/secured or isolated. False or innocent alarm should be noted and discontinued immediately.

VII. SPECIFIC INSTRUCTIONS

- A. Issuance of the special equipment to individuals/units for operational purposes must be properly documented/logged by the respective RSO/Supply Officers of the different PCG units.
- B. To ensure the units are working properly, inspection of the special equipment must be performed in accordance with manufacturer specifications prior utilization of said equipment.
- C. During actual operations, when the special equipment generates an alarm, the first response is to verify or confirm the initial alarm. This should be verified by detection with another radiation detection device. This can be done using a PRD PM1703GNA or RIID that is assigned with a Radiation Portal Monitor, or one of the other radiation detection and identification devices.
- D. If the second radiation detector confirms the presence of radiation, assess the level to see if it is above the legal limit, and / or presents a danger.
- E. Following verification, determine the source location and make a preliminary assessment of the specific radio-isotope using a radio-isotope identification device (RIID).
- F. Part of the assessment is also to determine if the cargo is a normally occurring radioactive material (NORM), or legally transported radioactive shipments (medical isotopes, etc.), or a person who has recently received radio-isotopes for medical diagnostics or treatment purposes. Define if source is from passenger or crew, luggage or personal belonging, area on board the vessel or area in the cargo. Boarding officers should always check the paper works and cargo manifests for verification.

G. If efforts leads to the confirmation of a potential inadvertent movement of radioactive materials (no or improper paperwork) or potentially illegal trafficking, the area should immediately be limited to access, isolate the crew /passenger or cargo, preserve evidence and inform the National Coast Watch Center to take further control and investigative actions.

H. The following should be grounds for immediate detainment:

- Detain if you discover a neutron source, or plutonium or uranium.
- Detain if you have an unidentified point-source of radiation.
- Detain if you have an inexplicably high level of radiation.
- Detain if you have a suspicious isotope.
- Detain if the isotope identified does not match the shipping documentation.

I. Activities/incidents must be properly documented and reported to CGAC and NCWC or concerned agency.

J. Agencies such as the PPA, BOC, ATC and PNRI must be notified immediately for proper handling of the incident.

K. After utilization, operators of the special equipment must return the equipment to the RSO or supply officer of the unit for proper storage and accounting.

VIII. **RESPONSIBILITIES:**

A. **CG-2**

1. Provide intelligence information and trends on the proliferation of WMD.
2. Monitor WMD incidents and other related activities.
3. Submit reports concerning WMD monitoring to CPCG.

B. **CG-3:**

1. Determine policies to effectively manage personnel involved and equipment used in NCWC operations.
2. Monitor incidents and ensure that procedures and policies are enforced.
3. Submit reports concerning WMD monitoring to CPCG.

C. **CG-11**

1. Receive periodic reports on the status, utilization and maintenance of the WMD equipment.
2. Maintain records of repair and maintenance of the equipment.
3. Submit periodic reports concerning status of equipment to CPCG.

D. CG-12

1. Provide training for personnel on the handling/usage of WMD/special equipment.
2. Maintain records of personnel with special equipment training.
3. Submit reports to CPCG on WMD training.

E. CG FLEET

1. Develop policies/procedures on vessel interdiction/inspection involving WMD.
2. Coordinate with higher headquarters for deployment, management and maintenance of special equipment.
3. Submit periodic report involving WMD related activities, status and maintenance of equipment to CPCG (Attn: CG-3/CG-11).

F. MARSLEC

1. Develop policies/procedures on CBRNE operations.
2. Monitor WMD incidents and other related activities.
3. Submit reports concerning WMD monitoring and status of equipment to CPCG (Attn: CG-3/CG-11).

G. SAO:

1. Receive equipment from Bureau of Customs and facilitate the availability of proper storage and facilities to all acquired supplies and equipment.
2. Properly record and document the inventory of all equipment.
3. Distribute said equipment to concerned District RSOs in accordance to the distribution list provided by CG-3.
4. Render periodic report to CPCG (Attn: CG-3/CG-11) on the status of the equipment.

H. RSO/Supply Officer:

1. Receive equipment from SAO and facilitate the availability of storage and facilities to all acquired supplies and equipment.
2. Properly maintain records and inventory of equipment and other allied document.
3. Prepare guidelines/protocols on the management of equipment.
4. Render periodic report to CPCG (Attn: CG-3/CG-11) on the status of the equipment.

I. CG DISTRICT:

1. Provide personnel for training on the handling of special equipment.
2. Coordinate with higher headquarters for deployment, management and maintenance of equipment.
3. Submit periodic report involving WMD related activities, status and maintenance of equipment to CPCG (Attn:CG-3/CG-11).

J. CG STATION:

1. Use special equipment on boarding inspections/activities.
2. Render periodic report to CG District (Attn: D-3) on measures and activities conducted and status of equipment usage.
3. Conduct periodic maintenance and Troops Information and Education(TI&E) on equipment usage and maintenance.
4. Support activities of the CG District.

K. CG SUB-STATION:

1. Use special equipment during boarding inspections/activities.
2. Render periodic report to CG Station on measures and activities conducted and status of equipment usage.
3. Conduct periodic maintenance and TI and E on equipment usage and maintenance.
4. Support activities of the CG Station.

L. CG Vessel:

1. Use special equipment during boarding inspections/activities.

2. Render report on measures and activities conducted and status of equipment usage to C, CG Fleet.
3. Conduct periodic maintenance and TI and E on equipment usage and maintenance.

M. CGK9/CGIF:

1. Use special equipment during boarding inspections/activities.
2. Render report on measures and activities conducted and status of equipment usage to C, MARSLEC.
3. Conduct periodic maintenance and TI and E on equipment usage and maintenance.


IX. EFFECTIVITY:

This Standing Operating Procedure shall take effect upon approval.

BY COMMAND OF ADMIRAL ISORENA:

OSCAR C ENDONAJR
CAPT PCG(GSC)
Chief of Coast Guard Staff

OFFICIAL:


LIEZEL B. BAUTISTA
LCDR PCG
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13/07/15