

## APPENDIX F

### RADIOLOGICAL EMERGENCY IN EQUIPMENT CONTAINING RADIOACTIVE SOURCES

**Procedure : SCP 2600SEG270 -006**

**Revision: C**

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#### NITON LEAD SPECTRUM ANALYZER

Model	Serial N°	Location	Isotope	Isotope Activity
XL-300	U3256NR6621	Office of the Supervisor of RSHS	Cd 109	10 mCi

#### PGT LEAD-IN-PAINT ANALYZER DETECTOR

Model	Serial N°	Location	Isotope	Isotope Activity
XK-3	943	Office of the Supervisor of RSHS	Co-57	10 mCi

#### Description of the Use of NITON and PGT Analyzers

Measurement of lead concentration in paint surfaces, concentrations in mg/cm<sup>2</sup>

#### CALIBRATOR OF PENCIL RADIATION DOSIMETERS – NUCLEAR ASSOCIATES

Model	Serial N°	Location	Isotope	Isotope Activity
06-201	N / A	Office of the Supervisor of RSHS	Cs-137	9 µCi

#### CALIBRATOR OF PENCIL RADIATION DOSIMETERS – DCA

Model	Serial N°	Location	Isotope	Isotope Activity
3060	4389 - RD 4411 - RD 4412 - RD	Office of the Supervisor of RSHS	Cs-137	<10 µCi

#### Description of the Use of NUCLEAR ASSOCIATES and DCA Equipment

Adjustment of indicator mark (to zero) of displacement registered due to radiation effect.

#### DREDGING MATERIAL DENSITY MEASUREMENT INSTRUMENT

Model	Serial N°	Location	Isotope	Isotope Activity
5204	B-522	MINDI Cutter Suction Dredge deck	Cs-137	4000 mCi

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### Description of the Use of the Densitometer

Dredged material density measurement system that determines the ratio of water and material pumped by Dredge MINDI.

### Immediate Protective Action

#### 1. Theft or loss

1.1 Any theft or loss of a radioactive source or instrument shall be notified to the appropriate ACP offices.

- Protection and Emergency Response Division (OPP)
- Safety and Industrial Hygiene Unit (RSHS)

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#### 2. Emergency Situations or Irregularities (breakdown or destruction of an instrument, radioactive source exposure)

2.1 The densitometer is also covered by a steel plate 1/8-inch thick, and a light signal was added which turns on when the meter is operating as well as the radiation triangle symbol, according to the ACP sign standard.

2.2 Area personnel who discover any irregularity or emergency situation shall alert their immediate supervisors in order to activate the dredge emergency response procedure. Notify the Safety Control and Emergency Dispatch Center (CCSDE) about the incident.

2.3 Supervisors shall ensure that employees establish a perimeter at a distance of 50 feet from the place of the incident. The incident area shall be cordoned off.

2.4 According to dredge emergency procedures, personnel shall go to the designated muster points at the Electrician's Room (starboard) and the Worker's Mess, where supervisors shall perform the corresponding employee count.

2.5 Once the emergency response procedure has been activated and MRE and ESSI personnel arrive, dredge personnel shall follow their instructions.

- Safety Control and Emergency Dispatch Center (CCSDE)
- Protection and Emergency Response Division (OPP)
- Safety and Industrial Hygiene Unit (RSHS)

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