

5.1.4. Use a survey meter and measure the sample for **\$1 mR/hr on contact**.

5.1.4.1. If < 1 mR/hr on contact, send the sample to a counting laboratory and proceed with the 5.2.

5.1.4.2. If (\$1 mR/hr) on contact, proceed to step 5.3.

5.2. If no radioactivity (<1 mR/hr) on contact is detected, the GRAYèSTAR™ unit may continue in service, proceed to step 5.4.

5.3. If any radioactivity \$1 mR/hr on contact is detected:

5.3.1. The GRAYèSTAR™ unit shall be removed from service.

5.3.2. Appropriate measures shall be taken to prevent exposure of personnel and further dispersal of radioactive material: e.g. the Main Ventilation Blower is turned off and secured, the Security Doors are closed and secured, etc.

5.3.3. The GRAYèSTAR™ Owner shall be immediately notified of the test results and other pertinent data.

5.3.4. The GRAYèSTAR™ Owner shall immediately notify the pertinent regulatory or controlling authority that an incident has occurred which might have caused or threatens to cause a radiation hazard.

5.3.5. A detailed radiation survey will be performed to determine the extent of any radioactivity contamination

5.3.6. NO ONE SHALL ATTEMPT TO OPERATE, FURTHER EXAMINE, OR DECONTAMINATE THE UNIT (INCLUDING REMOVAL OF ANY ADDITIONAL WATER) WITHOUT EXPRESS CONSENT OF THE GRAYèSTAR™ OWNER OR AN AUTHORIZED REPRESENTATIVE OF THE PERTINENT REGULATORY OR CONTROLLING AUTHORITY.

5.4. The LOWER CUFF LIQUID SAMPLING REPORT shall be completed for all samples. Completed reports shall be distributed to:

5.4.1. GRAYèSTAR™ Owner.

5.5. If the laboratory analysis indicates the presence of **\$ 1E-6** µCi/ml Cs¹³⁷, the GRAYèSTAR™ Owner shall immediately implement the requirements of steps 5.3.1, 5.3.2, 5.3.4, 5.3.5, and 5.3.6.

5.6. The effluent stored in the storage locker and any liquid still in the GRAYèSTAR™ unit will be disposed of at the direction of the GRAYèSTAR™ Owner based on the laboratory analytical results.

- 5.6.1. The effluent stored in the storage locker may be disposed of in the sanitary sewer (or like wastewater disposal service) if the sample laboratory analysis did not detect the presence of **\$ 1E-5** $\mu\text{Ci/ml Cs}^{137}$.
- 5.6.2. Any liquid still in the GRAYèSTAR™ unit may be disposed of in the sanitary sewer (or like wastewater disposal service) if:
 - 5.6.2.1. The sample laboratory analysis is received within seven days, AND
 - 5.6.2.2. The sample laboratory analysis did not detect the presence of **\$ 1E-5** $\mu\text{Ci/ml Cs}^{137}$, AND
 - 5.6.2.3. No significant liquid was further introduced in the GRAYèSTAR™; there were no spills, floods, etc.

LOWER CUFF LIQUID SAMPLING REPORT

GRAYèSTAR™

Date _____

Model Number _____

Serial Number _____

Radioactive Material – Cs¹³⁷

Customer _____

Address _____

City, State, Zip _____

Survey Meter

GRAY*STAR, Inc. S/N _____

Date of Last Calibration _____

Due Date for Calibration _____

GRAYèSTAR™ Sample Location and type

- | | | | | |
|---|--------|----------------------|-------|------------------------|
| 1 | Sample | Wash / Drain Pipe #1 | _____ | No sample, Unit is dry |
| 2 | Sample | Wash / Drain Pipe #2 | _____ | No sample, Unit is dry |
| 3 | _____ | _____ | _____ | No sample, Unit is dry |
| 4 | _____ | _____ | _____ | No sample, Unit is dry |
| 5 | _____ | _____ | _____ | No sample, Unit is dry |
| 6 | _____ | _____ | _____ | No sample, Unit is dry |

Sample	1	2	3	4	5	6
\$ 1 mR/hr (Y/N)	_____	_____	_____	_____	_____	_____

Comments and Action Taken _____

Signature _____