

Environmental & NORM Services Offered

The Methodologies, Intellectual Properties, Copyrights, Provision of NORM Services, NORM Safety Manuals, NORM COR Manuals, Drawings of NORMinator Equipment, Operations of NORM and Environmental Equipment, proprietary Methods of NORM and Environmental Soil Remediation, Storage Techniques for NORM Contaminated materials and waste streams, proprietary Emulsion Materials and NORM Micelle Encapsulation Materials/chemicals including:

1. Naturally Occurring Radioactive Material (N.O.R.M.) Services

a. NORM Systematic Approach to Training (SAT) Training Seminars

i. Incidental Worker (4 hours)

1. For workers that their daily work scope requires them to work near or in areas that contain NORM contamination.
2. These people report directly to the Site Supervisors.

ii. NORM Supervisor SAT Training Seminar (8 hours)

1. For Jobsite Supervisors who are responsible to supervise and instruct incidental workers daily work scopes.
2. These Supervisors report directly to the Corporate Radiation Safety Officers.

iii. NORM Corporate Radiation Safety Officer (16 hours)

1. For corporate managers usually involved in the environmental and HSE departments.
2. These RSO's report directly to the corporate management and finance departments structure of the corporation.

2. NORM Field/Facility Services

- a. In the training above all levels of training teach the students how to identify NORM contamination. Once they identify the NORM contamination, they are trained to call the professionals. The services are as follows;

i. NORM Field/Facility Study

1. These services come into force once NORM contamination is discovered by the client's workers.
2. A complete NORM survey is performed complete with GPS mapping (field) showing NORM contamination levels.
3. The submitted report will discuss each and every location and give the client regulatory guidelines and also suggest proper protocol to follow in the future.

ii. NORM Field/Facility Consulting Services

1. These services are to provide professional facility assistance when maintenance crews are repairing or servicing any infrastructure within the facility that is contaminated with NORM.
2. If infrastructure is being REPLACED our people will take the old pieces safely to our decontamination facility to be decontaminated and delivered back to the client's site. (see below)

iii. NORM Decontamination Services (NORMinator Decontamination Plant)

1. It is the goal of this venture to construct up to 6 complete mobile NORMinator Decontamination Plants and strategically place them throughout the GCC/MENA region so that our clients have much easier access to them. Each plant will employ a crew of up to 10 local persons (5 radiation professionals and 5 support staff that work in the camp provided on site mechanic/electrician/camp cook/camp janitor/camp driver).
2. Charges for this service will be “by the foot” OR “per piece”.
3. This service is offered in “Cradle to Grave” fashion.

iv. NORM Tank Cleaning Services (also see below services in red below i.e.

Confined Space Entry Equipment and manpower/Medical Transport Unit)

1. While doing external surveys of tanks at a production facility (up OR downstream) the client may discover NORM contamination levels above background levels.
2. IN this situation the client will contact our company to begin a report. Usually these surveys are done prior to maintenance/inspection services to the tank requiring it to be cleaned out. If ever there is water cut at this facility there WILL be NORM contamination within these tanks. The sludges will contain NORMs and also the tank walls may be contaminated with NORM.
3. Once NORM is discovered we offer the complete “Cradle to Grave” service that will require us to handover the tank NORM FREE with all of the contamination secured at its final disposal site (that we construct...see vi below)
4. This service requires many 3rd party services that ultimately will be offered by Napesco. (see Schedule C)

v. NORM Soil Remediation Services

1. This service is to professionally clean up NORM contaminated soil from an evaporation pond (produced water) or major leaks from produced water pipelines/well sites.
2. This service will require specialized equipment (hydrovac trucks-crew of 3) to properly perform the final stage of remediation returning the land back to the client completely NORM FREE.
3. ALL waste collected must be secured within an environmental barrier that acts as a “Temporary Long Term Disposal Site” (SEE vi BELOW) until final disposal is made available in this area of the world.
4. This service is offered in three stages all chargeable in their own right and depending on the size of the project all phases listed below could turn into over a year’s work;
 - a. Phase I
 - i. Discovery and professional report
 - b. Phase II

- i. Horizontal and vertical discovery to accurately determine the amount of waste
- c. Phase III
 - i. Final Remediation

vi. NORM Long Term Temporary Disposal Site Construction

- 1. Design based on the waste destined to be stored there.
- 2. Manufacturing of the materials required (will be done in Dubai)
- 3. Installation of the manufactured materials based on design.

vii. Hydrovac Services

- 1. Non-Destructive Digging/boring
- 2. Soil remediation (NORM)
- 3. Soil remediation (Oil contamination or other hazardous chemical)