



Environmental Impacts Screening Report

Project Name: Non Destructive Testers Limited (Guyana) Inc.

Type of Operation: Storage of Sealed Radioactive Sources

Background to the Project

Non Destructive Testers Limited (Guyana) Inc. (NDTL) has submitted an application for Environmental Authorization to operate and store Industrial X-Ray and Gamma Ray Equipment. The tools are used to examine subsurface discontinuities (such as voids, cracks, porosity and inclusions, etc.) in castings and weldments, by using the technique of radiographic exposure and interpretation.

Site Description

The source storage facility will be located at 1-2 Coverden, East bank, Demerara. The area is generally flat and is within the developed compound of the 112, 774 sq ft facility that currently houses Guyana Oil and Gas operations as well as operations of Guyana National Hardware. The facility has several bonds that support various activities associated with the oil & gas industry. The source storage facility is at least 100 ft away from the East Bank Demerara main access road. The site requires no major infrastructure and utility development as well as no major earthworks and waterworks prior to commencing the project.

Geographic Location

The facility is located approximately 6 34 41.22 N 58 13 2.53 W and situated on the eastern side of the Public Road at Coverden.

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Figure 1: Proximity of Project Site to Environs



Environmental impact screening

The EPA's screening concludes that the primary risk of this project is radiation exposure. Persons at risk to radiation exposure include radiation workers and other employees working nearby. Radiation exposure is not significant since adequate mitigation measures will be

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implemented to protect employees and the public. These mitigation measures were clearly documented in the Radiation Safety Manual that was submitted along with the application and Project Summary as required by the EPA. NDTL will have an emergency response plan, a traffic management plan and a Radiation Safety Officer.

Environmental impacts are not significant since there are no direct discharges or releases to air, soil or water from the operation.

The lead-lined source storage facility is within a built-up area and very far away from the closest protected area. No risk to flora and fauna is foreseen. The Demerara River is approximately 0.32 kilometers away from the source storage facility. The operation will not release any effluent in this waterway.

Transportation of the radioactive materials will be done based on job requirements and at no time sources will be left at a job site. Standard procedure will allow for the source to be returned to the source storage facility on the same day. Only trained and certified personnel (Level II Radiographers) will handle the tools containing sources. The vehicles transporting radioactive sources will be conspicuously marked with radiation warning signs at all times.

Noise produced during the activities will be low, intermittent and localized. There are no stationary sources of emissions directly associated with this project. The operation is not expected to negatively impact the local air quality.

Disused sources no longer in use by NDTL will be returned to the international supplier for recycling or final disposal. There will be no final disposal of disused sources in Guyana.

Conclusion and recommendations

The EPA concludes that there are no significant impacts to human health and the environment that will result from the operation of the Source Storage Facility. The potential impact of radiation exposure was thoroughly assessed and the proposed safety and security risk and measures along with monitoring and emergency response procedures were deemed adequate and in keeping with international standards and best practices.

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