PROJECT SUMMARY FOR TRANSPORTING RADIOACTIVE SOURCES

Project Name	Transportation of Radioactive Sources
Developer/Company	Source One Oil and Gas Marine Supplies Inc.
Contact Details	592-673-4001
Date Prepared	19th February, 2025
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Date Revised	30th May, 2025.
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1. Site Description

The area of influence includes urban and rural zones that may be affected by transport activities. Land use along the route consists of industrial, commercial, and residential areas.

The transport operation will require the use of designated secure storage areas at loading and unloading points. The receiving facility is authorized for handling radioactive materials, and all discharging points comply with regulatory guidelines. Maps detailing the full transport route, including risk zones, alternative routes, and emergency response locations, are found in our emergency response manual, journey management plan and Job Safety Analysis, assisted by our clients' Radiation Officers.

2. Project Design

- **Development Stages:** Includes planning, packaging, secure loading, transportation, unloading, and safe disposal/storage.

- **Operational Activities:** The process involves regulatory approvals, radiation shielding, vehicle preparation, radiation monitoring, and emergency response readiness.

- **Utility Services:**
  - **Water Supply:** Not applicable.
  - **Energy/Electricity:** Dosimeters are used for monitoring radioactive exposure and safety equipment.
  - **Communication:** Real-time GPS tracking and emergency response coordination.
  - **Waste Management:** Not applicable since Radioactive Sources are transported in secure Cargo Carrying Units or situated in Oil and Gas Drilling Tools

3. Project Size

- **Workforce:** 30 Employees
- **Production Rates:** Not applicable, as this is a transportation project.

4. Non-Technical Explanation

This project involves the secure and regulated transportation of radioactive sources from a designated supplier to an authorized receiving facility. The process ensures compliance with all national and international safety standards to prevent exposure risks to personnel, the public, and the environment.

5. Project Duration

- **Planning & Permitting:** Based upon Client's Request to Transport

- **Transportation Phase:** 4 hours (escorted by security, movement is done at less peak hours to avoid exposure to the environment)

6. Potential Environmental Effects

- **Land:** Minimal impact, as the transport follows existing road networks.
- **Soil:** No direct impact unless incident occurs causing infertility of affected soil, which will be mitigated through emergency response procedures.
- **Water:** Risk of contamination in case of an accident, mitigated through strict containment measures.
- **Air:** No emissions from the radioactive source; vehicle emissions managed through standard regulations.
- **Natural Resource Use:** Minimal, limited to fuel consumption for transport vehicles.

7. Environmental Impact Mitigation Plans

- **Radiation Shielding:** Use of approved containers and transport vehicles.
- **Route Planning:** Avoidance of densely populated and environmentally sensitive areas.
- **Emergency Preparedness:** Trained response teams and clear contingency plans.
- **Regulatory Compliance:** Adherence to EPA and local regulatory standards.
- **Monitoring & Reporting:** Continuous tracking and monitoring of transport conditions.

8. Fleet

No.	Type of Vehicle	Manufacturer	Model	Vehicle Registration No.
1	Articulated	Leyland	XF-510	GAC 8944
2	Articulated	Freight Liner	Cascadia 116	GAJ 5499
3	Articulated	Peterbilt	579 Sleeper	GAJ 5498
4	Articulated	Freight Liner	Cascadia 125	GAJ 5503
5	Articulated	DAF	CF85	GAF 6520
6	Articulated	Leyland	DAF-106	GAD 9516
7	Articulated	Leyland	Euro 6	GAE 4090
8	Articulated	Peterbilt	579	GAH 8104
9	Articulated	Leyland	XF-460 Euro 6	GAD 2456
10	Articulated	Leyland	XF-510	GAC 8945
11	Articulated	International	LT625	GAH 3679

This project summary provides an overview of the safe transportation of radioactive sources, ensuring compliance with legal, environmental, and safety standards.