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| PIN – Maentwrog Tunnel Inspections |

**Context**

Maentwrog Site has an annual requirement to carry out Tunnel Inspection and Repair works. It is anticipated that Maentwrog will continue operation until the projected cessation of generation in 2086.  The inspection and repair of the low-pressure supply tunnels are required to ensure the structural integrity of the tunnels and protection of the surrounding environment. The work is carried out during the annual power station maintenance outage, usually commencing the second week in June each year.

Interested parties must be a member of the Tunnel Association or have relevant experience in the field of tunnel inspections. Entrants into the tunnels must be confined space trained, City & Guilds Level 2 Medium risk or equivalent.

**Background**

There are two tunnels of 10ft nominal internal diameter that run between the Trawsfynydd Reservoir dam and the Generating Station at Maentwrog.  Tunnel 1 runs from the dam to the low pressure above ground steel pipeline which is of 9ft 6in nominal internal diameter.  While Tunnel 2 runs from the downstream end of the low-pressure pipeline to the two high-pressure pipelines, of 5ft and 6ft nominal internal diameter running down the hillside to the generating station, before emerging from the hillside Tunnel 2 bifurcates immediately upstream of the valve house.  The tunnels are generally excavated in rock with a cast-insitu concrete lining.

**General Information**

* NRS Limited is notifying the forthcoming procurement of Maentwrog Tunnel Inspection scope.
* The commercial strategy for this scope of work has not yet been decided upon.  The output gathered from this PIN exercise will inform this strategy.
* The interested parties are required to be a member of the Tunnel Association or have relevant experience in the field of tunnel inspections.
* Entrants into the tunnels must be confined space trained, City & Guilds Level 2 Medium risk or equivalent.
* All deliverables will be subject to review, comment and approval by the client and will be subject to Magnox quality standards.

**Scope Description**

The full scope of work being tendered will include:

* Carry out inspections of Tunnel 1, starting from the dam and progressing downstream as far as the start of the steel pipe.
* Carry out inspections of Tunnel 2, starting from the end of the steel pipe and progressing downstream as far as the start of the steel pipes beyond the bifurcation.
* Identify defects including soft concrete, degraded material from previous repairs, longitudinal cracking, longitudinal feathered construction joints, spalled concrete and other defects as identified in the inspection.
* Carry out temporary repair to minor concrete defects on the day of inspection.
* Carry out repairs as identified in the previous year’s report.
* Remove all debris resulting from, and all equipment used for, the Works as soon as each part of the works is completed.
* Prevention measures to ensure no debris is carried away from the repair location by the residual water flow.
* Produce a report detailing the findings of the inspection, any repair works carried out and recommendations of repair work to be carried out in future outages.

**Timescales**

Major project milestones have been identified in the table below and must be included in the contractor’s proposed programme (a schedule by the *contractor* is required as part of the quotation).

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| **Milestone** | **Timeframe** |
| Site Visit | 21/06/24 |
| ITT issue | Winter 2024 |
| Contract Award | Spring 2025 |
| Contract Start | June 2025 |

Please provide a response to the Atamis record to confirm your interest in the site visit.