**Challenge Statement FAQs**

**Innovative Solutions for the Identification, Mobilisation and Removal of Solid Accumulations in Complex Process and Storage Systems**

**FAQ 1: Where are the accumulations and blockages located?**

Accumulated solids are known to exist within process vessels and associated pipework across both operational and legacy systems. Localised blockages have been identified within transfer routes and process interfaces; however, the primary challenge is not the clearance of a single blockage, but the management and recovery of significant quantities of accumulated material distributed throughout interconnected process equipment.

The accumulated solids are believed to be present in multiple locations and may exist as both settled deposits and compacted accumulations. Mobilising these materials introduces the risk of creating secondary blockages within transfer lines, downstream equipment or receiving systems. Therefore, solutions should consider not only how to mobilise solids, but also how to control, recover and transfer them safely and effectively throughout the removal process.

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**FAQ 2: What access is available for inspection, deployment and recovery activities?**

Existing systems contain a range of access and inspection points providing varying levels of visibility and reach. Historical inspection arrangements were limited, which restricted understanding of asset condition and accumulation extent. Subsequent systems incorporated additional inspection points to improve access and condition assessment capabilities.

Access constraints will vary depending on the specific asset, location and operational status of the system. Opportunities may exist to utilise existing access points, inspection routes and penetrations. In some cases, where systems are no longer operational and appropriate controls are in place, additional access arrangements or modifications may be possible to support inspection, characterisation, deployment or retrieval activities.

Solutions should therefore be adaptable and capable of operating within a range of access conditions, from highly constrained environments with limited entry points through to situations where additional access can be established under controlled conditions.

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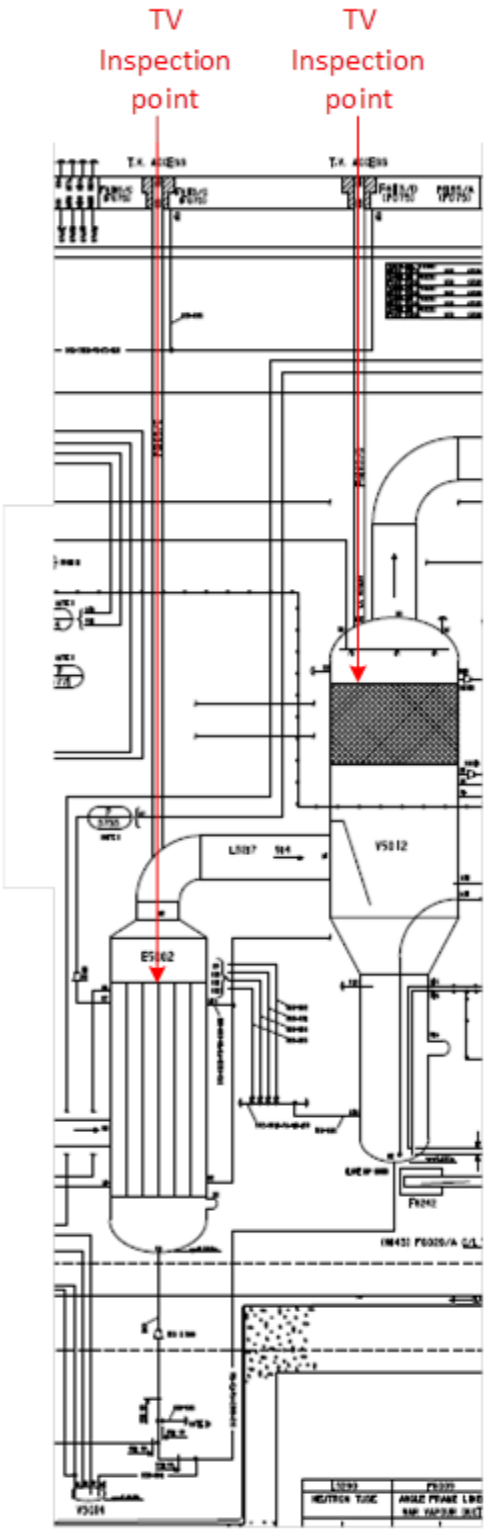
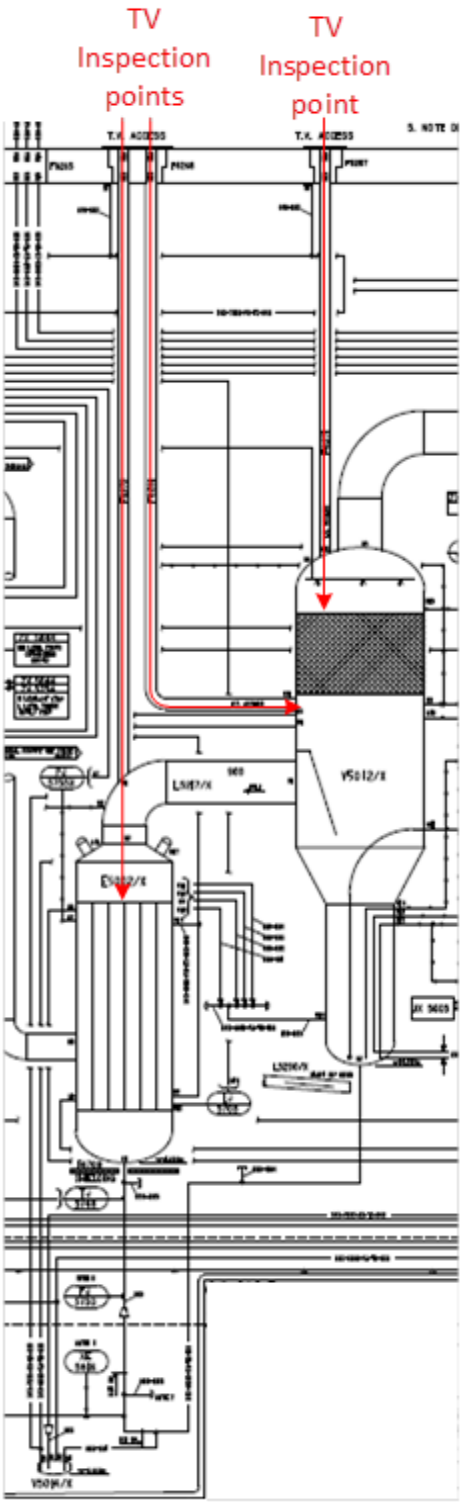
**Are there any models/drawings for the operational system?**



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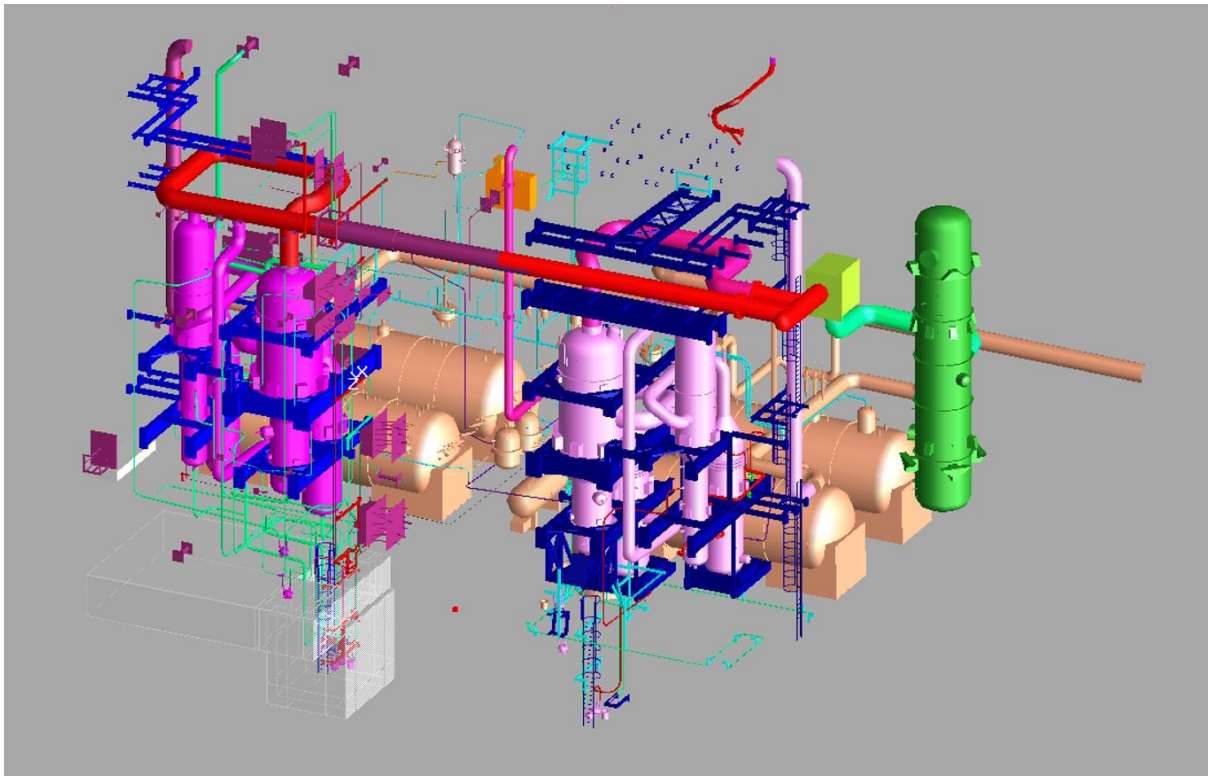

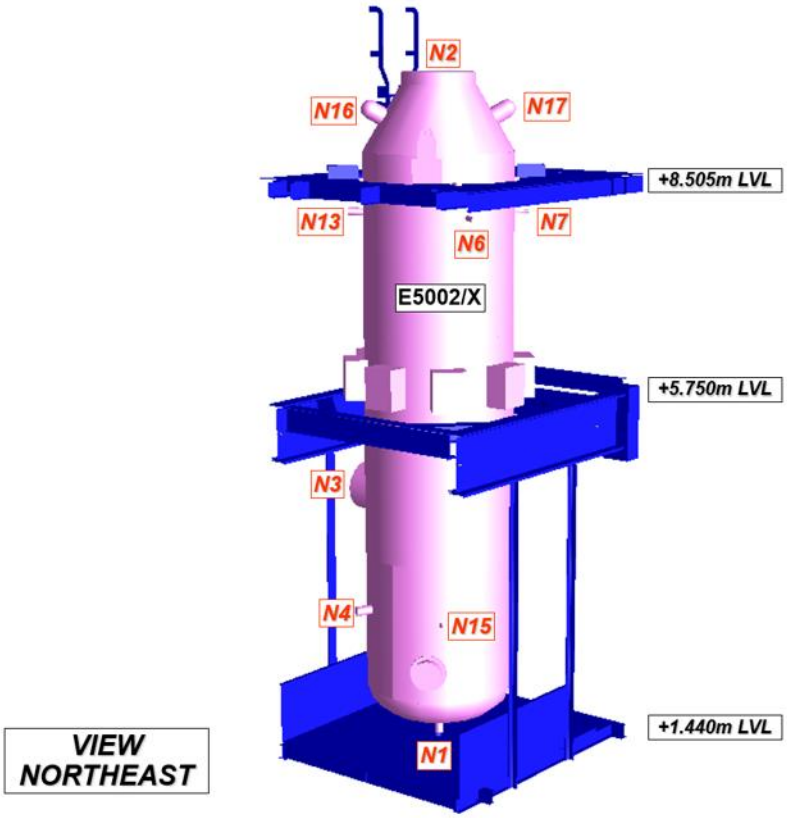
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