LNG Storage tank hydrotesting & cathodic protection

LNG storage tanks under construction can be hydrotested by either soft potable water or with seawater. Of course the last one has some significant cost advantages.

Precautions against corrosion have to be taken as these tanks are constructed with 9% Ni steel. Anotec, known in Europe for its corrosion and water prevention technology did extensive research on corrosion in seawater of 9% Ni steel sheets. After comparative tests with different cathodic protection materials (anode types, cable, rectifiers, reference electrodes) a new design was developed for hydrotesting with seawater.

Hydrotesting with seawater and cathodic protection has some interesting synergy effects:

- Very efficient corrosion prevention.
- Unlike the use of corrosion initiators there is no seawater contamination.
- The system has been developed for simple adaptation to new projects and has a short pay-back period.
- Adapts its protection current automatically to tanks which are whether coated or non-coated.

What information is needed to quote?

- Diameter of the LNG tank.
- Water height under hydrotesting conditions.
- 9% Ni steel or other.
- Coated or non-coated tanks (μm coating).

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