

2.5.6 Power Transmission (Main Generator) System

1.0 Description

The power transmission system transmits main generator output to the transmission system via the main step-up transformers (MSU) and provides power to the station auxiliary loads via the MSU and switchyard.

2.0 Arrangement

2.1 Deleted.

3.0 Mechanical Design Features

3.1 Each MSU has an oil containment system.

3.2 Each MSU has a deluge fire protection system.

4.0 Electrical Considerations

4.1 MSUs and associated isophase bus are sized to support the main generator rated output at generator rated power factor.

5.0 Interface Requirements

5.1 The main generator switchyard circuit breakers shall be sized to supply the load requirements.

6.0 Inspection, Tests, Analyses and Acceptance Criteria

Table 2.5.6-1 lists the power transmission system ITAAC.

Table 2.5.6-1—Power Transmission System ITAAC

| Commitment Wording | | Inspections, Tests, Analyses | Acceptance Criteria |
|---------------------------|--|---|--|
| 2.1 | Deleted. | Deleted. | Deleted. |
| 3.1 | Each MSU has an oil containment system. | An inspection will be performed. | Each MSU has an oil containment system. |
| 3.2 | Each MSU has a deluge fire protection system. | An inspection will be performed. | Each MSU has a deluge fire protection system. |
| 4.1 | The MSUs and associated isophase bus are sized to support the main generator rated output at generator rated power factor. | <p>a. An analysis will be performed.</p> <p>b. An inspection will be performed.</p> | <p>a. Analysis concludes the main generator output at rated power factor is within the specified MSU and connected isophase bus ratings.</p> <p>b. The ratings of the installed main generator, MSU and isophase bus meet the analysis criteria.</p> |