

## **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**

<b>Commitment Wording</b>		<b>Inspections, Tests, Analyses</b>	<b>Acceptance Criteria</b>
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>