

运 行 证 明 Operation Certification

750kV 沙州变电站位于甘肃省敦煌市七里镇，经纬度为东经 $92^{\circ} 13'$ - $95^{\circ} 30'$ ，北纬 $39^{\circ} 53'$ - $41^{\circ} 35'$ ，海拔高度在 1272~1276.5m 之间，站区气候条件恶劣，有强沙尘和极端低温天气，紫外线照射强烈。

750kV Shazhou Substation is located in Qili Town, Dunhuang City, Gansu Province. East longitude $92^{\circ} 13'$ - $95^{\circ} 30'$, north latitude $39^{\circ} 53'$ - $41^{\circ} 35'$, altitude 1272 ~ 1276.5m, its climatic conditions is harsh, there are strong dust and extreme low temperature weather, strong ultraviolet radiation.

750 千伏沙州变电站是全球首座全复合外绝缘变电站，所有电气设备外绝缘和变电站支柱绝缘子均采用了江苏神马电力股份有限公司产品，工程供货清单如下表所示：

750kV Shazhou substation is the world's first full composite insulation substation, all electrical equipment of the external insulation and substation pillar insulators are used SHEMAR products. The details of the supply of insulators are as under:

应用设备 Applied device	产品类型 Specification	电压等级 Voltage	数量 Quantity
罐式断路器 DTB	空心复合绝缘子 Composite hollow insulator	750kV	72
		330kV	60
		110kV	54
GIS			
隔离开关 Switchgear	支柱复合绝缘子 Composite post insulator	750kV	261
		330kV	174
		110kV	36
		66kV	72
柱式断路器 LTB	空心复合绝缘子 Composite hollow insulator	110kV	18
		35kV	18
		66kV	66
变压器 Transformer		750kV	25

电抗器 Electric reactor	支柱复合绝缘子 Composite post insulator	110kV	329
		66kV	186
互感器 CT	空心复合绝缘子 Composite hollow insulator	220kV	51
电容式电压互感器 CVT	空心复合绝缘子 Composite hollow insulator	750kV	96
		330kV	42
		66kV	4
避雷器 Arrester	空心复合绝缘子 Composite hollow insulator	750kV	108
		330kV	41
		66kV	3
母线支柱 SVC	支柱复合绝缘子 Composite post insulator	750kV	21
		330kV	18
		110kV	175
		66kV	145
		35kV~110kV	517

2013年6月下旬，该变电站投入试运行，至今为止，未对复合绝缘子进行任何维护工作，包括但不限于清洗、清扫和喷涂防污闪涂料等。运行期间，750千伏沙州变电站遭遇**次沙尘天气，所有复合产品运行状态良好。

In June 2013, the substation was put into operation, so far, no maintenance work has been done on the composite insulators, including but not limited to cleaning and spraying of anti-fouling paint. During the operation, 750 kV Shazhou substation suffered ** dust weather, all composite products running in good condition.

特此证明

Hereby certify

单位名称（公章）：

Name of unit (official seal):

日期：

Date: