

运行证明 Operation Certification

1000kV 潍坊变电站（昌乐特高压站）位于山东省潍坊市，
经纬度为东经 $118^{\circ} 10' - 120^{\circ} 01'$ ，北纬 $35^{\circ} 32' - 37^{\circ} 26'$ 。

1000kV Weifang substation is located in Shandong,
Weifang, east longitude $118^{\circ}01' \sim 120^{\circ}01'$, north latitude
 $35^{\circ}32' \sim 37^{\circ}26'$.

1000kV 潍坊变电站，站内 GIS 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：

1000kV Weifang substation .The GIS in the station have
adopted 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
GIS	空心复合绝缘子 Composite hollow insulator	1000kV	23

直流场避雷器 Surge Arrester	空心复合绝缘子 Composite hollow insulator	1000kV	96
CVT			92
合计 Total			201

2017年8月，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。至今为止所有复合产品运行状态良好。

In August 2017, 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. Up to now all composite products are running well.

特此证明

Hereby certify

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单位名称 (公章):

Name of unit (official seal):

日期:

Date: 2018/3/13

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1000kV 济南变电站（泉城特高压站）位于山东省济南市，经纬度为东经 117° 00' ，北纬 36° 40' ，站区紫外线照射强烈，年均日照时数 1870.9 小时。

1000kV Jinan substation is located in Shandong, Jinan, east longitude 117°00', north latitude 36°40'. Ultraviolet radiation is intense; the average annual sunshine hours are 1870.9 hours.

1000kV 济南变电站，站内 GIS 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：

1000kV Jinan substation .The GIS in the station have adopted 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
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GIS	空心复合绝缘子 Composite hollow insulator	1000kV	13
合计 Total			13

2017年8月，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。至今为止所有复合产品运行状态良好。

In August 2017, 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. Up to now all composite products are running well.

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湘潭换流站位于湖南省湘潭市，经纬度为东经 111° 58' — 113° 05' ，北纬 27° 21' —28° 05' 。

Xiangtan converter station is located in Xiangtan , Hunan, east longitude 111° 58' —113° 05' ,north latitude 27° 21' —28° 05' .

湘潭换流站，站内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：

Xiangtan converter station , The station has adopted 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
PLC 电抗器 PLC reactor	支柱复合绝缘子 Composite post insulator	±800kV	6
隔离开关 Isolating switch		±800kV	71

insulator			
合计 Total			77

2017年6月，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。至今为止所有复合产品运行状态良好。

In June 2017, 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. Up to now all composite products are running well.

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