



No 111

Date 10-Jul-12

Equipment of Substation

132kV Disconnecting Switch (125)



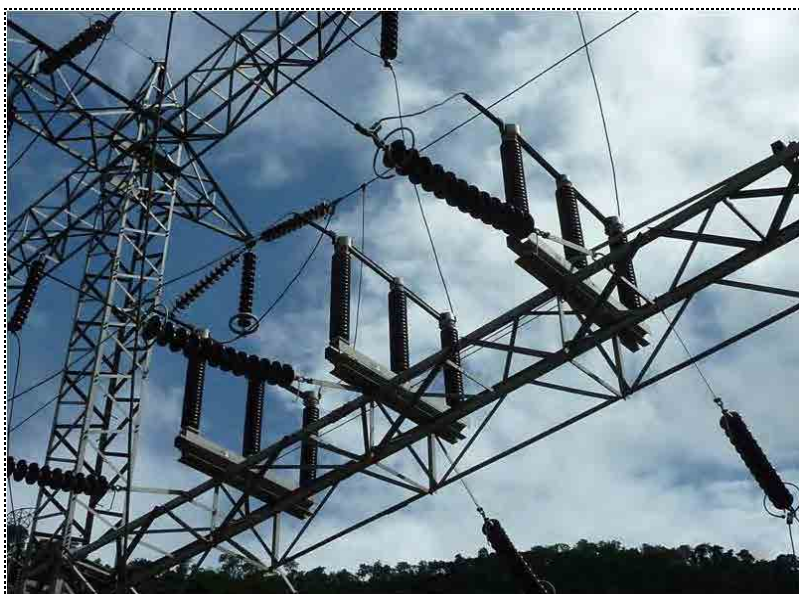
No 112

Date 10-Jul-12

Equipment of Substation

132kV Disconnecting Switch (125)

There is bird's nest in the contact part of Disconnecting Switch.



No 113

Date 10-Jul-12

Equipment of Substation

132kV Disconnecting Switch (225)



No 121

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 122

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 123

Date 10-Jul-12

Equipment of Substation

Circuit Breaker





No 124

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 125

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 126

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



Date 10-Jul-12

### Current Transformer

[illegible]

Date 10-Jul-12

### Current Transformer

[illegible]

Date 10-Jul-12

### Current Transformer

[illegible]





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No 134

Date 10-Jul-12

### Equipment of Substation

### Current Transformer



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No 135

Date 10-Jul-12

### Equipment of Substation

### Current Transformer



写真

No 136

Date 10-Jul-12

### Equipment of Substation



No 141

Date 10-Jul-12

Equipment of Substation

Arrester

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No 142

Date 10-Jul-12

Equipment of Substation

Arrester

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No 143

Date 10-Jul-12

Equipment of Substation

Arrester

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No 1501

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1502

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1503

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1504

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1505

Date 10-Jul-12

Equipment of Substation

Main Transformer



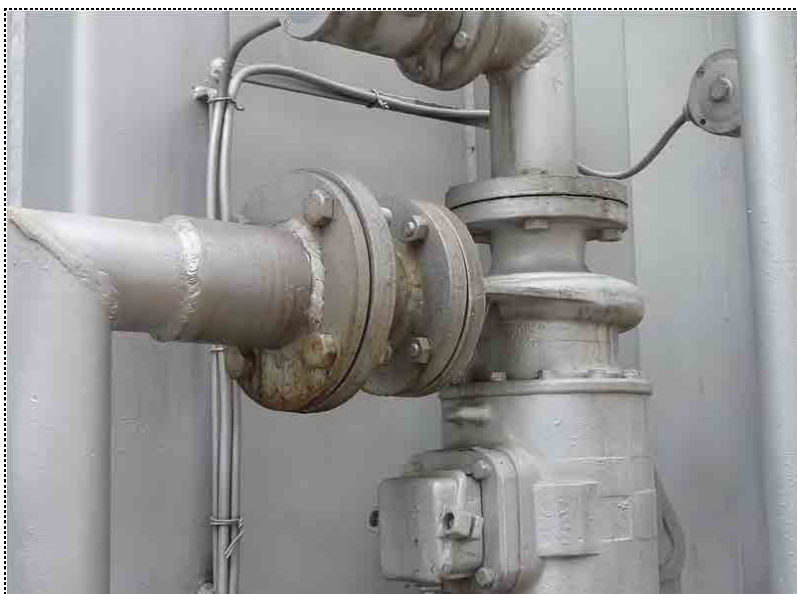
No 1506

Date 10-Jul-12

Equipment of Substation

Main Transformer





No 1507

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1508

Date 10-Jul-12

Equipment of Substation

Main Transformer

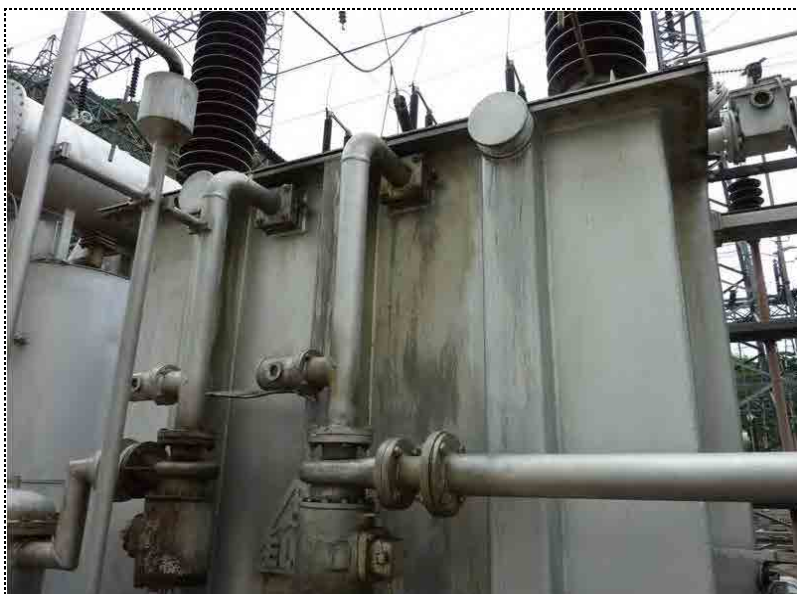


No 1509

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1510

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1511

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1512

Date 10-Jul-12

Equipment of Substation

Main Transformer





No 1513

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1514

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1515

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1516

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1517

Date 10-Jul-12

Equipment of Substation

Main Transformer



写真

No 1518

Date 10-Jul-12

Equipment of Substation

Main Transformer

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No 161

Date 10-Jul-12

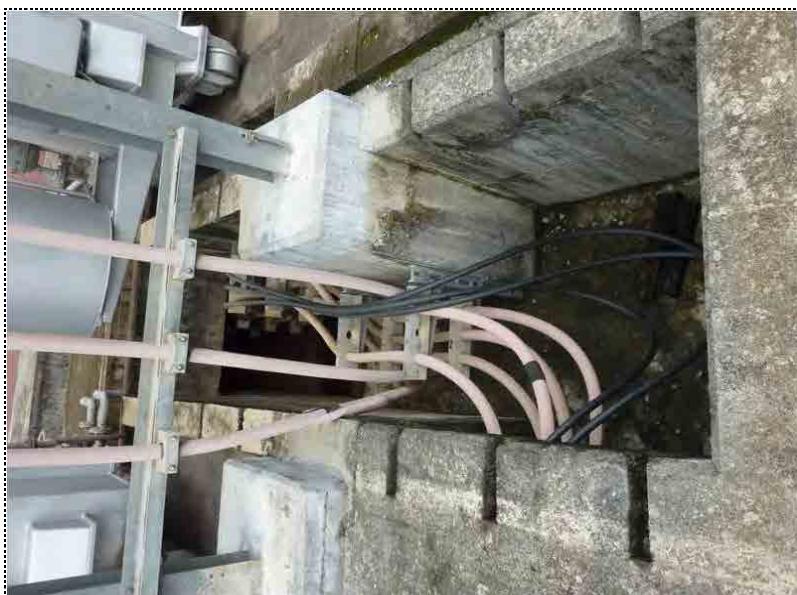
11kV BUS &amp; cable (outside)



No 162

Date 10-Jul-12

11kV BUS &amp; cable (outside)



No 163

Date 10-Jul-12

11kV BUS &amp; cable (outside)



No 201

Date 10-Jul-12

Generator Cubicle



No 211

Date 10-Jul-12

Outgoing panel

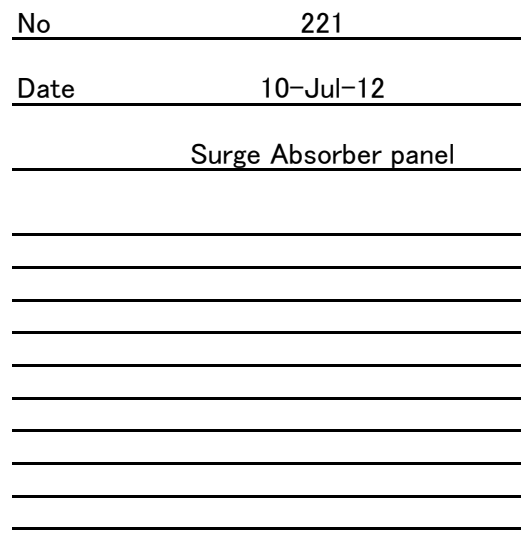
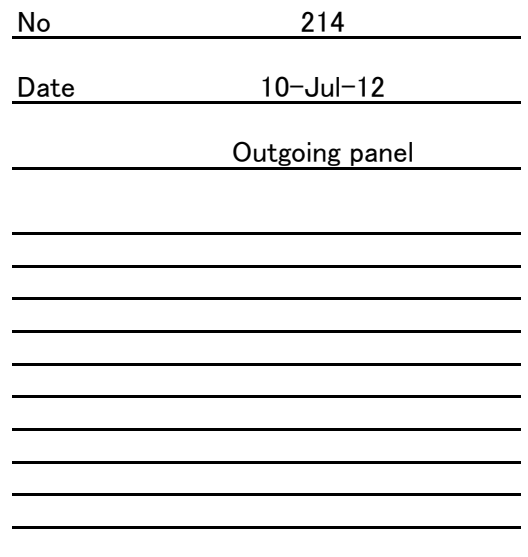
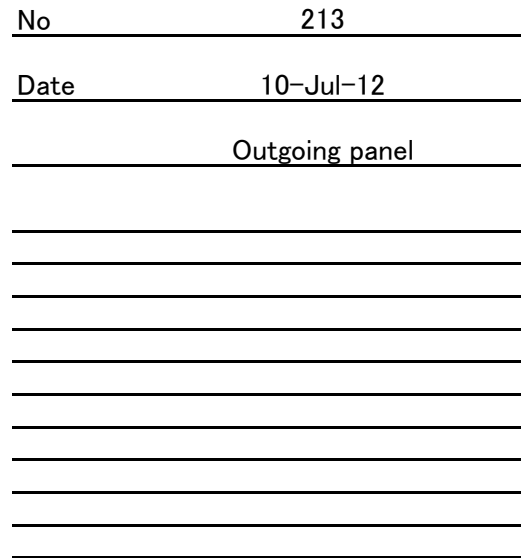


No 212

Date 10-Jul-12

Outgoing panel







No 222

Date 10-Jul-12

Surge Absorber panel



No 223

Date 10-Jul-12

Surge Absorber panel



No 224

Date 10-Jul-12

Surge Absorber panel





No 231

Date 10-Jul-12

Voltage Transformer panel



No 232

Date 10-Jul-12

Voltage Transformer panel



No 233

Date 10-Jul-12

Voltage Transformer panel



No	241
Date	10-Jul-12
Incoming panel	



No	242
Date	10-Jul-12
Incoming panel	



No	243
Date	10-Jul-12
Incoming panel	





No 251

Date 10-Jul-12

House Service panel



No 252

Date 10-Jul-12

House Service panel



No 253

Date 10-Jul-12

House Service panel



No 111

Date 10-Jul-12

Equipment of Substation

132kV Disconnecting Switch (126)

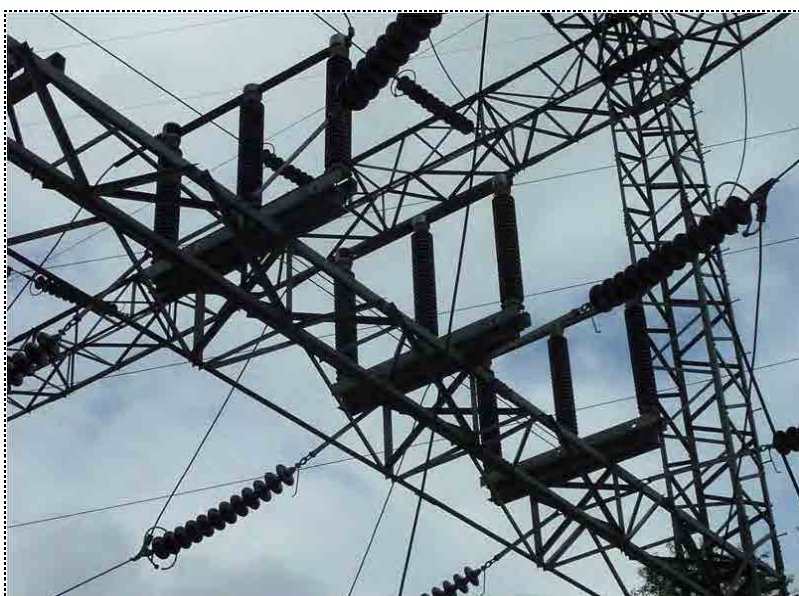


No 112

Date 10-Jul-12

Equipment of Substation

132kV Disconnecting Switch (126)



No 113

Date 10-Jul-12

Equipment of Substation

132kV Disconnecting Switch (226)





No 121

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 122

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 123

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 124

Date 10-Jul-12

Equipment of Substation

Circuit Breaker



No 131

Date 10-Jul-12

Equipment of Substation

Current Transformer



No 141

Date 10-Jul-12

Equipment of Substation

Arrester





No 1501

Date 10-Jul-12

Equipment of Substation

Main Transformer



No 1502

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase A



No 1503

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase A

Oil was leaked from a Buchholtz relay.



No 1504

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase A



No 1505

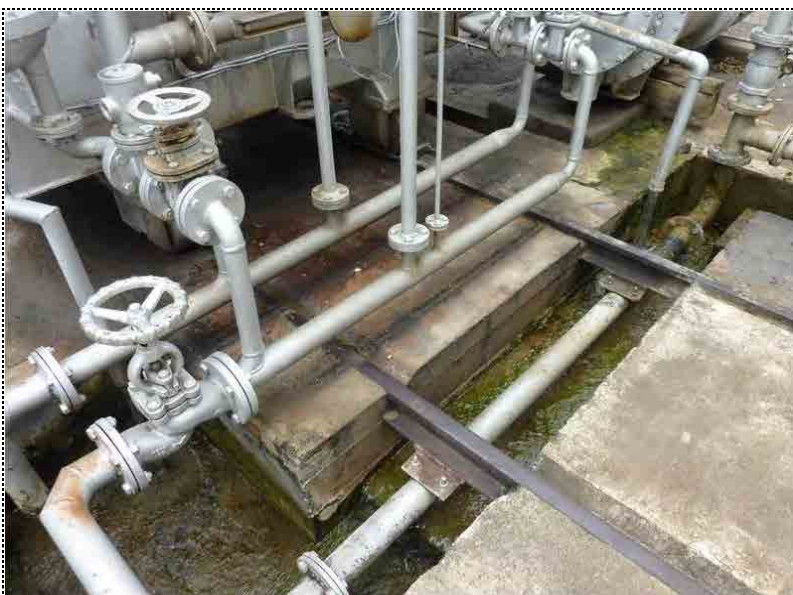
Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase A

Oil was leaked from a oil pump.



No 1506

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase A



No 1507

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase A

Meter cannot be read due to the discoloration.



No 1508

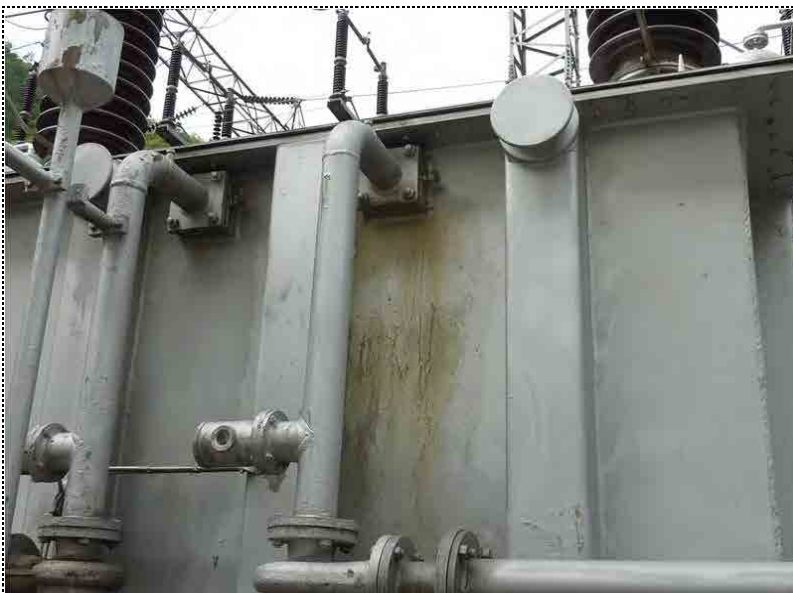
Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase A

Thermometer cannot be read due to the discoloration.



No 1509

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase B





No 1510

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase B



No 1511

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase B

Oil was leaked from the top of tank.



No 1512

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase B



No 1513

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase B

The oil cooler was replaced.



No 1514

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase C



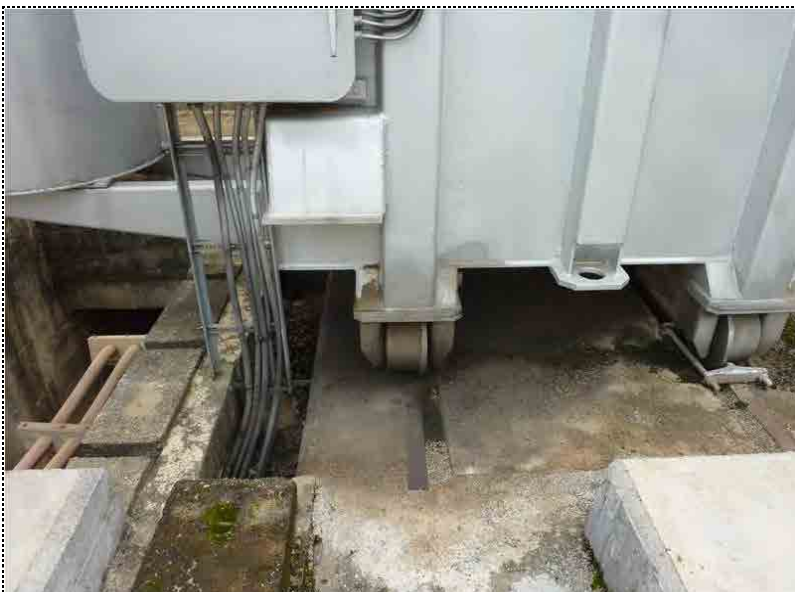
No 1515

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase C



No 1516

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase C



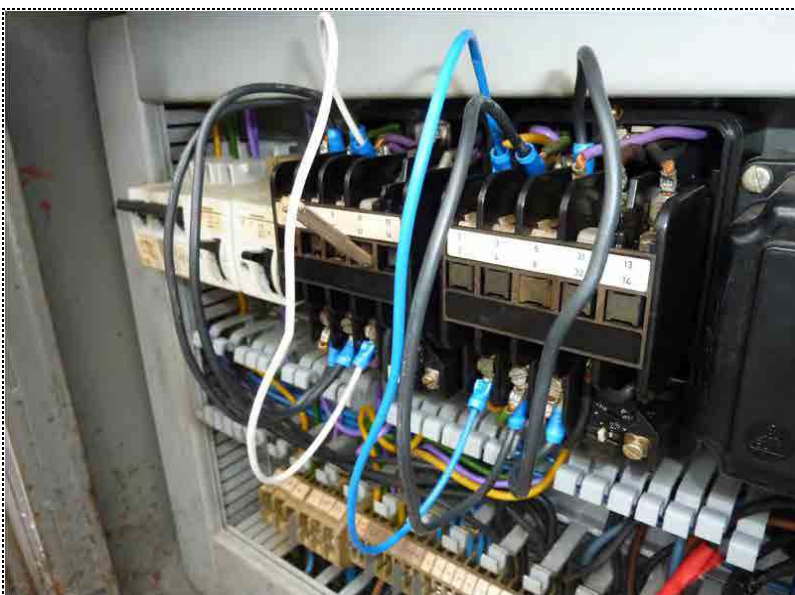
No 1517

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase C



No 1518

Date 10-Jul-12

Equipment of Substation

Main Transformer

Phase C

Some broken relays were not used.





No 161

Date 10-Jul-12

11kV BUS & cable (outside)



No 162

Date 10-Jul-12

11kV BUS & cable (outside)



No 163

Date 10-Jul-12

11kV BUS & cable (outside)

Cleat has the crack due to degradation.

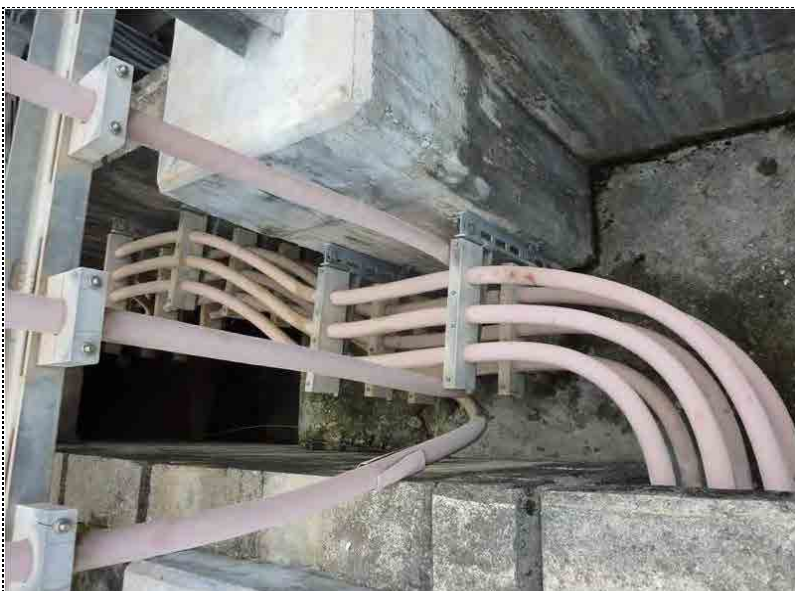


No 164

Date 10-Jul-12

11kV BUS & cable (outside)

Cable surface hardened due to degradation



No 165

Date 10-Jul-12

11kV BUS & cable (outside)



写真

No 166

Date 10-Jul-12

11kV BUS & cable (outside)





No 211

Date 10-Jul-12

Outgoing panel



No 212

Date 10-Jul-12

Outgoing panel

Disconnecting Switch was broken by the operation mistake. It was replaced with new one (made in Japan) around 1992.



No 213

Date 10-Jul-12

Outgoing panel



No 214

Date 10-Jul-12

Outgoing panel

Cable head



No 215

Date 10-Jul-12

Outgoing panel

It seems that the cable head  
was damaged by the operation mistake  
of Disconnecting Switch.



No 216

Date 10-Jul-12

Outgoing panel





No 221

Date 10-Jul-12

Surge Absorber panel



No 222

Date 10-Jul-12

Surge Absorber panel



No 223

Date 10-Jul-12

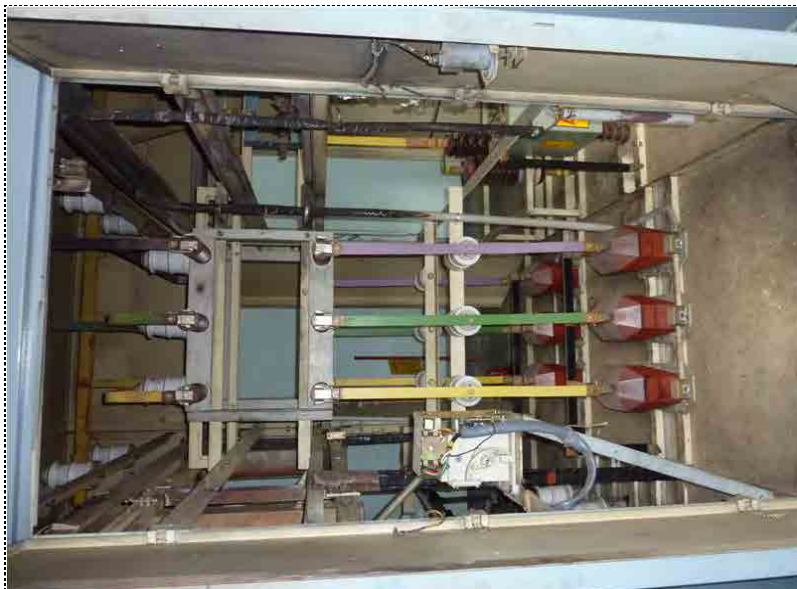
Surge Absorber panel



No 224

Date 10-Jul-12

Surge Absorber panel



No 231

Date 10-Jul-12

Voltage Transformer panel

The panel was damaged by the operation  
mistake of next-door panel.



No 232

Date 10-Jul-12

Voltage Transformer panel



No 233

Date 10-Jul-12

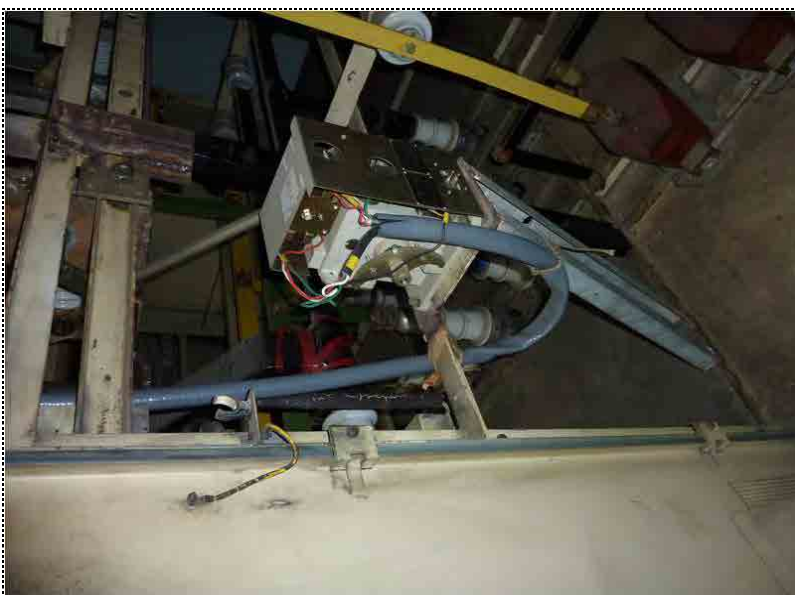
Voltage Transformer panel



No 234

Date 10-Jul-12

Voltage Transformer panel



No 235

Date 10-Jul-12

Voltage Transformer panel

The operation system of Disconnecting Switch of Outgoing panel was installed in this panel.





No 241

Date 10-Jul-12

Incoming panel



No 242

Date 10-Jul-12

Incoming panel



No 243

Date 10-Jul-12

Incoming panel



No 251

Date 10-Jul-12

House Service panel

There is no switch in this panel.  
The switch seems to be used in Unit 5.



No 252

Date 10-Jul-12

House Service panel



No 253

Date 10-Jul-12

House Service panel





No 101

Date 19-Jul-12

230kV Equipment

Disconnecting Switch (189-B3)



No 102

Date 19-Jul-12

230kV Equipment

Disconnecting Switch (189-1)



No 103

Date 19-Jul-12

230kV Equipment

Disconnecting Switch (189-2) + ES





No 104

Date 19-Jul-12

230kV Equipment

Disconnecting Switch (189-3) + ES



No 105

Date 19-Jul-12

230kV Equipment

Disconnecting Switch (189-3) + ES



No 106

Date 19-Jul-12

230kV Equipment

Gas Circuit Breaker (152)



No 107

Date 19-Jul-12

230kV Equipment

Gas Circuit Breaker (152)



No 108

Date 19-Jul-12

230kV Equipment

Gas Circuit Breaker (152)



No 109

Date 19-Jul-12

230kV Equipment

Gas Circuit Breaker (152)

Because SF<sub>6</sub> gas was leaked from breaker, the cylinder gas connected for gas supply.





No 110

Date 19-Jul-12

230kV Equipment

Capacitor Voltage Transformer (CVT1)



No 111

Date 19-Jul-12

230kV Equipment

Capacitor Voltage Transformer (CVT1)  
Blocking coil

No 112

Date 19-Jul-12

230kV Equipment

Capacitor Voltage Transformer (CVT1)





No 113

Date 19-Jul-12

230kV Equipment

BUS Voltage Transformer




No 114

Date 19-Jul-12

230kV Equipment

BUS Voltage Transformer

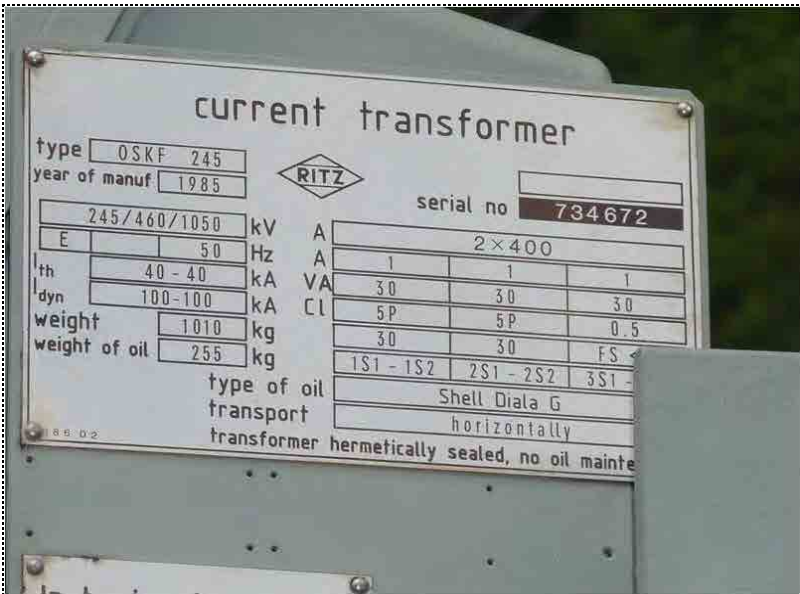



No 115

Date 19-Jul-12

230kV Equipment

Current Transformer (CT1)

No 116

Date 19-Jul-12

230kV Equipment

Current Transformer (CT1)




No 117

Date 19-Jul-12

230kV Equipment

Current Transformer (CT1)

Bird's nest at the CT (Phase B)




No 118

Date 19-Jul-12

230kV Equipment

Arrester (LA1)








No 201

Date 19-Jul-12

B1-bank Equipment

132kV Disconnecting Switch (89B-1)



No 202

Date 19-Jul-12

B1-bank Equipment

132kV Disconnecting Switch (89B-1)



No 203

Date 19-Jul-12

B1-bank Equipment

132kV Circuit Breaker (152-1)



No 204

Date 19-Jul-12

B1-bank Equipment

132kV Circuit Breaker (152-1)

No 205

Date 19-Jul-12

B1-bank Equipment

Booster Transformer 1 (phase A)

No 206

Date 19-Jul-12

B1-bank Equipment

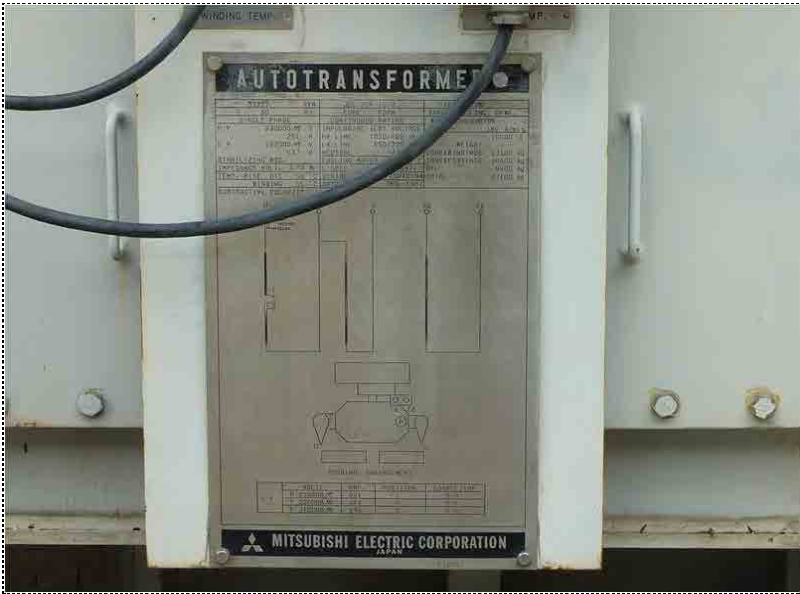
Booster Transformer 1 (phase B)







No	207
Date	19-Jul-12
B1-bank Equipment	
Booster Transformer 1 (phase C)	
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No	208
Date	19-Jul-12
B1-bank Equipment	
Booster Transformer 1 (phase C)	
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No	209
Date	19-Jul-12
B1-bank Equipment	
Thermometer of BTr.	
Phase A	
<u>Winding and oil temperature is difficult to read due to the discoloration.</u>	
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	





No 210

Date 19-Jul-12

B1-bank Equipment

Thermometer of BTr.

Phase B

Winding and oil temperature is difficult to read due to the discoloration.



No 211

Date 19-Jul-12

B1-bank Equipment

Thermometer of BTr.

Phase C

Winding and oil temperature is difficult to read due to the discoloration.



No 212

Date 19-Jul-12

B1-bank Equipment

Booster Transformer 1

Main tank of Booster Transformers was rusty.



No 213

Date 19-Jul-12

B1-bank Equipment

230kV Arrester (LA3)

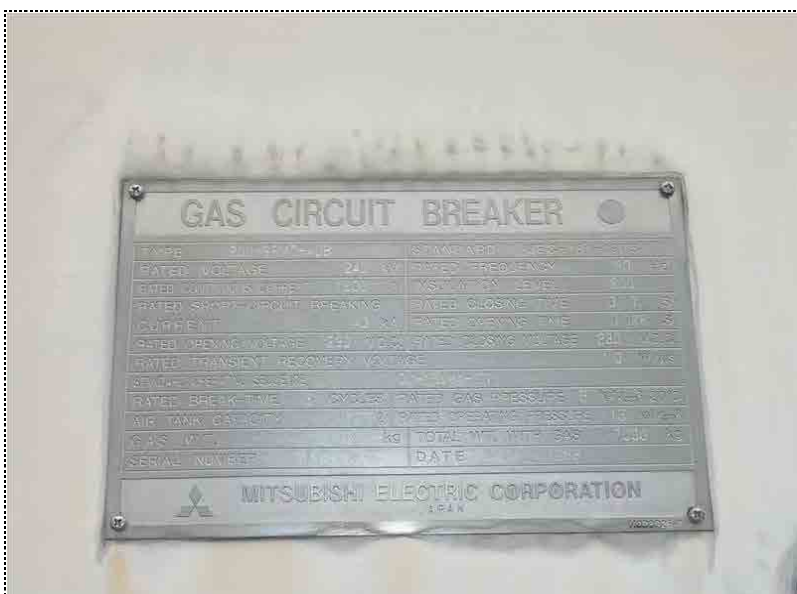


No 214

Date 19-Jul-12

B1-bank Equipment

230kV Circuit Breaker (152-B1)



No 215

Date 19-Jul-12

B1-bank Equipment

230kV Circuit Breaker (152-B1)

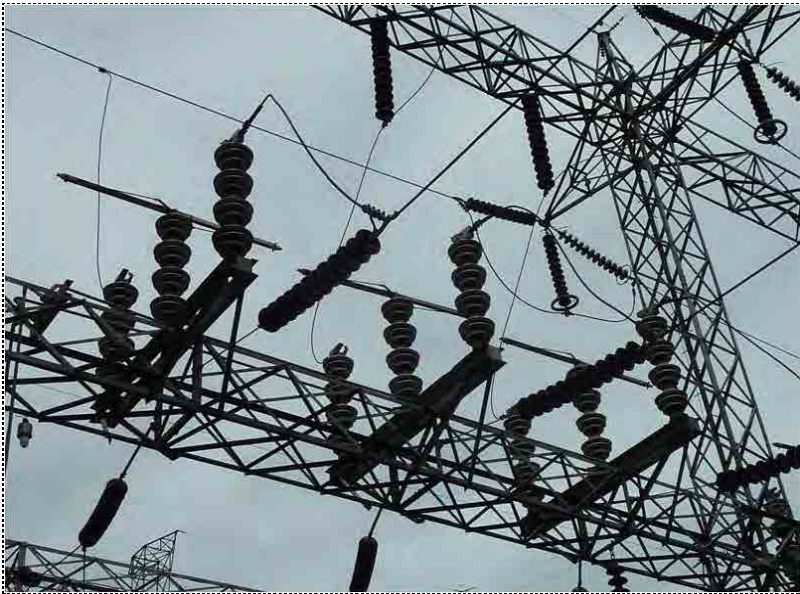




No 216

Date 19-Jul-12

B1-bank Equipment

No 301

Date 19-Jul-12

B2-bank Equipment

132kV Disconnecting Switch (127)




No 302

Date 19-Jul-12

B2-bank Equipment

132kV Disconnecting Switch (127)






No 303

Date 19-Jul-12

B2-bank Equipment

132kV Disconnecting Switch (227)



No 304

Date 19-Jul-12

B2-bank Equipment

132kV Circuit Breaker (152-2)



No 305

Date 19-Jul-12

B2-bank Equipment

132kV Circuit Breaker (152-2)





No 306

Date 19-Jul-12

B2-bank Equipment

132kV Circuit Breaker (152-2)

Some insulators were broken.

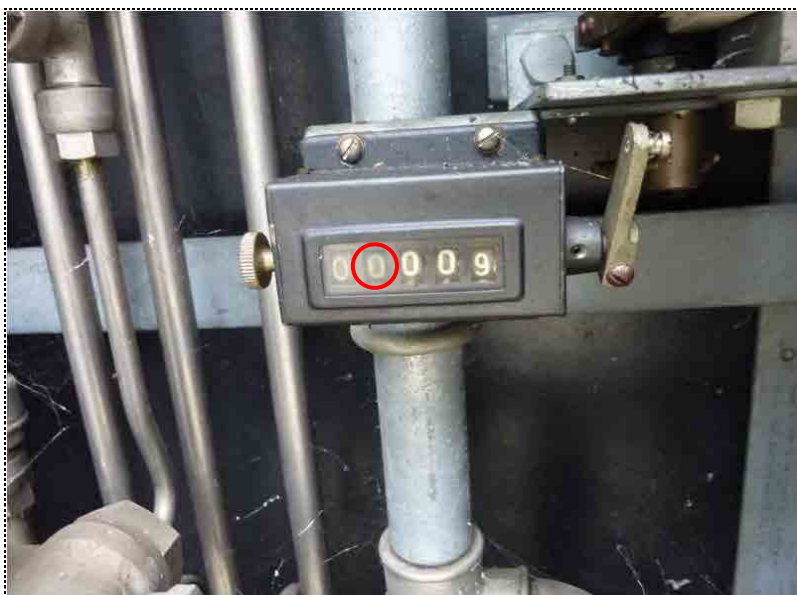


No 307

Date 19-Jul-12

B2-bank Equipment

132kV Circuit Breaker (152-2)



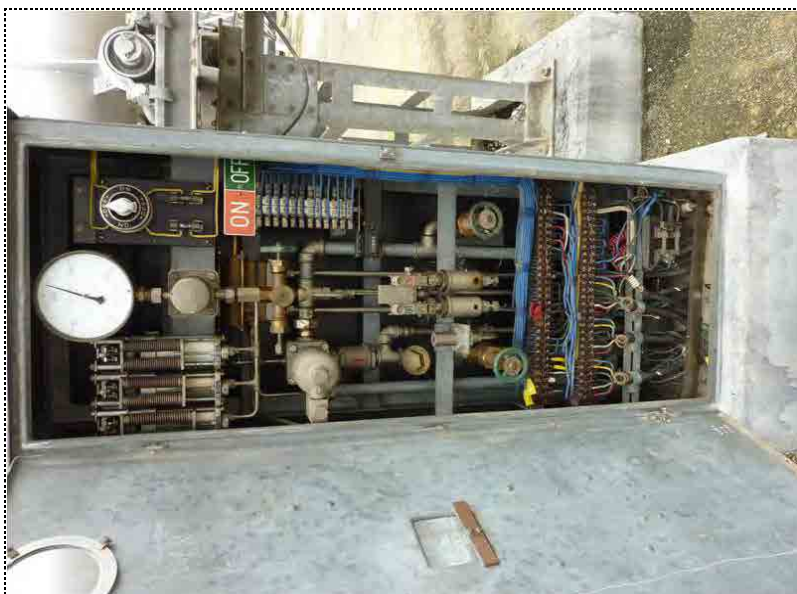
No 308

Date 19-Jul-12

B2-bank Equipment

132kV Circuit Breaker (152-2)

The digit in thousand's place is not working. Operation frequency seems to be 1009 or more.



No 309

Date 19-Jul-12

B2-bank Equipment

132kV Circuit Breaker (152-2)

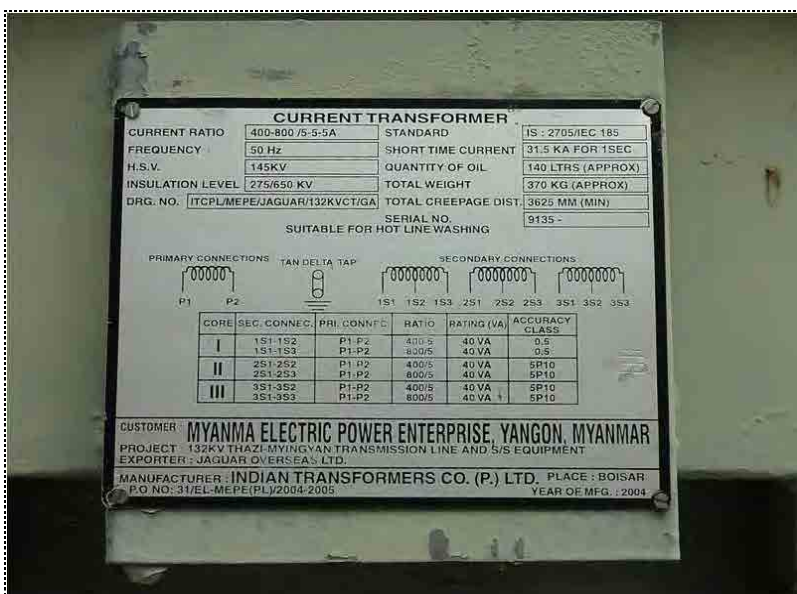


No 310

Date 19-Jul-12

B2-bank Equipment

132kV Current Transformer (CT7)



No 311

Date 19-Jul-12

B2-bank Equipment

132kV Current Transformer (CT7)





No 312

Date 19-Jul-12

B2-bank Equipment

132kV Current Transformer (CT7)



No 313

Date 19-Jul-12

B2-bank Equipment

132kV Disconnecting Switch (189-23)



No 314

Date 19-Jul-12

B2-bank Equipment

132kV Disconnecting Switch (189-23)  
Phase B

Some insulators were broken.



No 315

Date 19-Jul-12

B2-bank Equipment

132kV Disconnecting Switch (189-23)

Earthing Switch was broken and cannot be used.



No 316

Date 19-Jul-12

B2-bank Equipment

Booster Transformer 2 (phase A)



No 317

Date 19-Jul-12

B2-bank Equipment

Booster Transformer 2 (phase B)





No 318

Date 19-Jul-12

B2-bank Equipment

Booster Transformer 2 (phase C)

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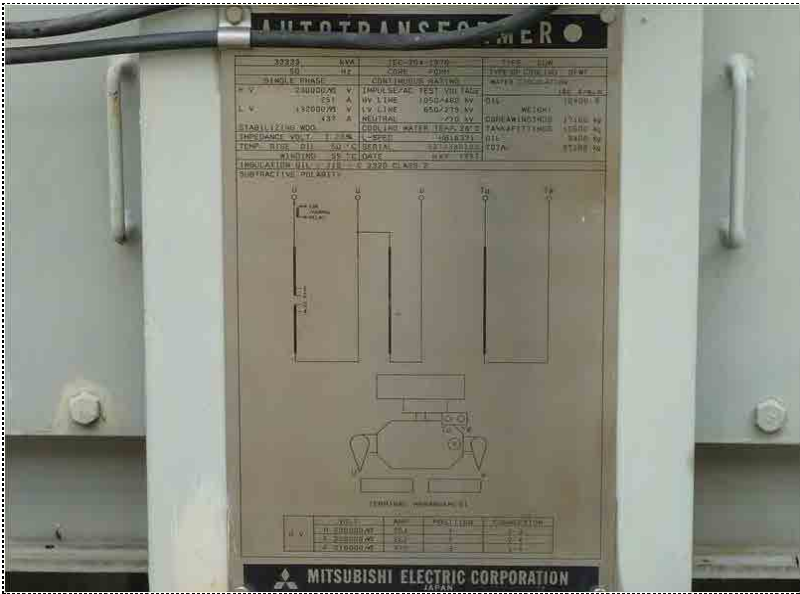
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No 319

Date 19-Jul-12

B2-bank Equipment

Booster Transformer 2 (phase C)

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No 320

Date 19-Jul-12

B2-bank Equipment

Booster Transformer 2 (phase B)

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