	1/4
Project Name:	Northern LNG Receiving Terminal-Terminal Portion
Order:	04P9001-F0017
Client:	Ampower/CTCI
Equipment:	Emergency Diesel Generator
Fac	Factory Inspection and Testing Report
Generator Model: Generator S/No.:	2800REOZD
Customer Comment:	
Color of Panel is not as     will supply color sample	Color of Panel is not as specified. Ampower will re-Spray to per Specified. Customer will supply color sample.
2) Customer request I	Customer request Modbus RS485 Address Mapping  Required a cut-out of 300 x 400 mm at the bottom of the panel a per drawing
	To provide System Ok indication light
	The factory inspection between the date of 15 <sup>th</sup> , to 21 St. December exclude all test on the Generator and its accessories
6) Ampower to resche	Ampower to reschedule the arrival and inspection date of the Generator due to the re-
7) Ampower to submit	Ampower to submit Self -Check Record to customer prior to their witness date

Rev: 1.0

Witness By:

Tung-Min Kao

Kas

Date:

20/12/06

Signature:
Signature:
Signature:
Signature:

Date:

Date:

Name: Name: Name:

Tested By:
Name:
Signature:
Date:

Kwan Khai Wah

20/1/2/06



CLLS POWER SYSTEM LTD
23 Tuas Avenue 2. Singapore 639454
Tel: (65) 264 2922 Fax: (65) 862 1145
Email: powersystem@clls.com.sg

# INSPECTION AND TEST RECORD FOR CONTROL PANEL

#### Item F. Control Panel

#### 1 Meter/Gauges

p-3) Speed Raise and Lower  Ok	p-2) Voltage Raise and Lower Ok	OX	<ul> <li>Engine Water Temperature Gauge NA</li> </ul>	n) Lube Oil Temperature Gauge NA	m) Lube Oil Pressure Gauge NA	I) Engine Speed Meter NA	k) Battery Charging Ammeter OK	j) Running Meter NA	I) Frequency Meter OK	h) Volt Mefer Switch NA	g) Voltmeter OK	f) Ammeter Switch NA	e) Ammeter OK	d) Power Factor Meter OK	c)Var Meter OK	b) Watt-Meter OK	a) watt-hour Meter OK
X	k	\tag{\tag{\tag{\tag{\tag{\tag{\tag{	A To be fitted on the Engine Mounted Panel	A Not Fitted. Already deviated	A To be fitted on the Engine Mounted Panel	A To be fitted on the Engine Mounted Panel	K	A To be fitted on the Engine Mounted Panel	K	A Item not required	X	A Item not required	X	K	K	X	X

## 2 Indication (Solid State Annunciator)

a) Low Lube Oil Pressure	Š	
b) High Cooling Water Temperature	앚	
c) Over Speed	Ok	
d) Over Crank	Ok	
e) Over Current	O <sub>X</sub>	
f) Over Load (winding Temperature:		
High/ High High by RTD)	Qķ	
g) Earth Fault	Ok	
h) Emergency Stop	Ok	
I)High/Low Fuel Oil Level	Ok	
j) Abnormal DC Supply	Ok	
k) Alarm Silence	Q <b>k</b>	
		To be confirmed as this item is not shown on the customer
l) System Ok	TBA	requirement list
m) All alarms Should have the the		
capability to be individually repeated		
to the DCS	ТВА	Item not tested

#### 3 Operation Switches

		Not Required as synchronizing Status is displayed on the
a) Synchronizing Check Lamp	NA	Synchroscope
b) Synchronizing Selector Switch	OX N	
c) Breaker Closing Switch	S	
d) Voltage Raise/Lower and Speed		
Raise/Lower Switch	QX	
e) Emergency Stop Push Button	웃	
f) Auto/Manual/Off Selector Switch	OK	
g) Manual Start/Stop Push Button	웃	
h) Alarm Silence	OK	
I) Other		

### 4 Protection Relay and Protection

ay Relay	9999	
d) 46 Negative Phase Current Relay	위	
e) 27/59 Under Voltage Relay	웃	
f) 51G Earth Fault Relay	웃	
g) Low Lub. Oil Pressure Shutdown	ΝA	Fitted on Engine Mounted Panel
I) High Water Temperature Shutdown NA		Fitted on Engine Mounted Panel

### 5 Output Dry Contacts

b) Engine Trouble	a) Engine Running	
웃	OK	
	m v v v	

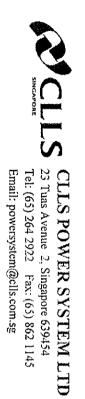
#### 6 Construction

a) Separaterly Mounted OK	
b) IP21 OK	

Test By: My By Kind
Witnes

ss By:

	Name: Kww K.W
¥	Name:
9:	Sign: T. M. Kac



# INSPECTION AND TEST RECORD FOR CONTROL PANEL

Project Title: Syn. Panel for 1 x 2600 KW Generator	Customer: CTCI	CTCI			
Type of control panel:	Job No.:			Date:	20/12/06
L. Visual Check	2	Dasc	E <sub>0</sub> 41		Domarks
I Front door all component layout as our drawing		×			
1.2 Front door component, name plate as per		×			
component drawing.					
1.3 Security of all base plate and relay component.		Х			
1.4 Base plate arrangement as our drawing.		Х			
1.5 Check all bus bar layout, clearance and security		X			
support.					
.6 Painting finished.		X			· · · · · · · · · · · · · · · · · · ·
1.7 Painting colour as per drawing.			×	To re-s	To re-spary as per reqruired
1.8 Panel dimension as per drawing.		X			
1.9 All component device no. properly labelled and		X			
placed.	-				
. 10 All bus bar and main cable to be marked with	×			Z	No Bus Bar Fitted
proper colour and code sign.					
.11 All live part to be covered.		×			
2. Insulation Test (Bus Bar)					
Description	Result	N.A.	Pass	Fail	Remarks
2.1 Red phase to ground.	100 M		×		To be > 2M
2.2 Yellow phase to ground.	100 M		X		To be > 2M
2.3 Bule phase to ground.	100 M		X		To be > 2M
	1002		<		TT- 1-100