

Drillship F&G/ ESD F.A.T 준비를 통한 S/W 안정화 작업

2015. 01. 29

선박시운전그룹/ 류광현 사원

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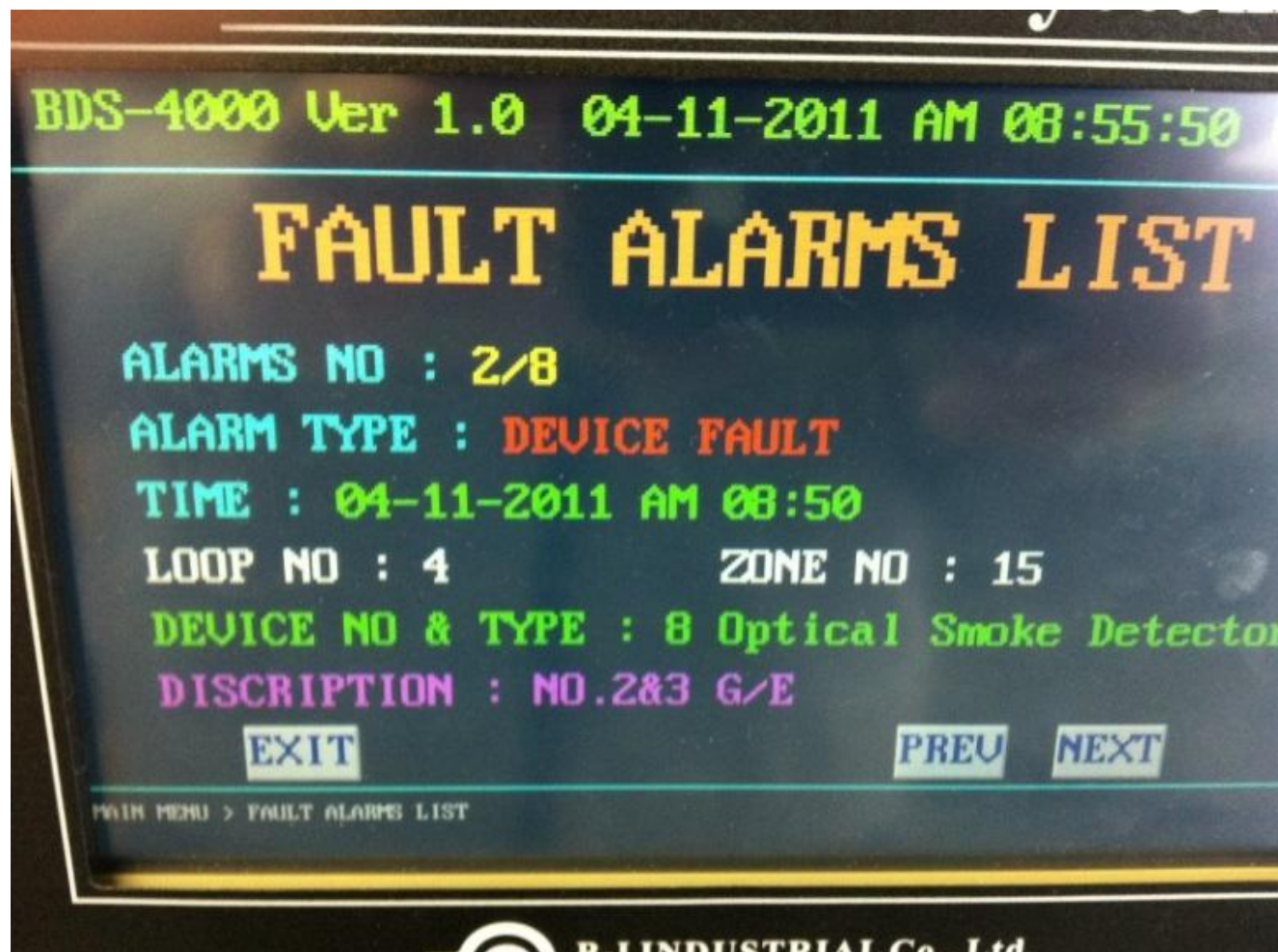


VANTAGE *CoP Overview*

CoP 과제명	Drillship F&G/ ESD F.A.T 사전준비를 통한 S/W 안정화 작업				
스폰서	선박시운전	박상환 전문위원	멤버	선박시운전	박종환 대리
지도위원	선박시운전	노진철 차장	멤버	선박시운전	배희원 대리
과제리더	선박시운전	류광현 사원	멤버	시추선전장설계	설성국 대리
간사	선박시운전	서기환 과장	멤버	시추선전장설계	최은주 대리
과제 선정배경	2월중 실시되는 F&G/ ESD F.A.T에 대한 사전준비로 해당 시스템 S/W의 안정화에 기여한다. (H.3618 Vantage drillship, GE/Invensys)				
과제목표	1) F.A.T procedure 사전검토 실시 2) C&E chart 사전검토로 F.A.T 중 완벽 검사 실시 3) 본선 F&G/ ESD commissioning 단축 방안 강구				

i n v e n t o r y s

Operations Management



H.3603 Tyco F&G/ ESD F.A.T

Plan : 3weeks

<p>TEST START - I/O CHECKS</p> <p>C&E CHECKS AND ANY OTHER</p> <p>PUNCH LIST ITEMS</p> <p>RETEST OF PUNCH LIST ITEMS</p>	<p><u>ORIGINAL FAT SCHEDULE</u></p> <p><u>19-Apr</u> <u>23-Apr</u></p> <p> <u>26-Apr</u> <u>30-Apr</u></p> <p> <u>30-Apr</u></p> <p> <u>3/5 - 5/5</u></p>	<p>Fire zone 상이함</p> <p>Gas sensing level 미반영</p> <p>Punch 미반영</p> <p>ESD 미구축</p> <p>현저히 느린 S/W</p> <p>S/W engineer의 기량문제</p> <p>▶ F.A.T 중단 및 장기화</p>
<p>TEST START - ADDRESSABLE I/O CHECKS</p> <p>F&G CHANGES (1,3,4,6,7,8,9) AND DEVELOPMENT</p> <p>F&G TESTING ZONE 100</p> <p>F&G TESTING ZONE 200</p> <p>F&G TESTING ZONE 300</p> <p>F&G TESTING ZONE 400 & 500</p> <p>PUNCHLIST ITEMS</p> <p>PUNCH LIST RETEST</p> <p>ESD CHANGES 2,5,10,11</p> <p>ESD C&E TESTING</p>	<p><u>REVISED FAT SCHEDULE F&G PRIORITY</u></p> <p><u>19-Apr</u> <u>22-Apr</u> COMPLETE</p> <p> <u>22-Apr</u> _____ <u>02-Jun</u></p> <p> <u>17-May</u> <u>19-May</u></p> <p> <u>20-May</u> <u>24-May</u></p> <p> <u>25-May</u> <u>27-May</u></p> <p> <u>28-May</u> <u>02-Jun</u></p> <p> <u>22-Apr</u> _____ <u>02-Jun</u></p> <p> <u>08-Jun</u></p> <p> <u>03-Jun</u> <u>07-Jun</u></p>	

Result : 3months!!!

F.A.T 전/중/후 무엇을 해야 할 것인가?!





F&G(Fire and Gas)



ESD(Emergency shutdown)

3

Gas Detection and Alarm Systems (2013)

Fixed automatic combustible gas detection and alarm systems are to be provided for the following areas:

-) Cellar deck
- i) Drill floor
- ii) Mud pit area
- v) Shale shaker area
-) Enclosed spaces containing open components of the mud circulation system from the bell nipple to the mud pits.

Gas detection(HC) and alarm system
Drill floor, Mud pit area, Shale shaker area, Mud circulation system, E/R ventilation intakes, Accom.
 The gas detectors are to be connected to an audible and visible alarm system with indicators on the drill floor and the mud pit area. The detectors are to alarm at not more than 25% and at 60% of the lower explosive limit (LEL).
Drill floor와 control station에 alarm 및 위치정보 연결. 25% LEL alarm.
Portable gas detector 제공. (최소 2개)

In addition to the fixed automatic gas detection system, two portable combustible gas detectors are to be provided on the unit.

5 Hydrogen Sulfide Detection and Alarm (2013)

5.1 Areas for Protection

A fixed automatic hydrogen sulfide gas detection and alarm system are to be provided for the following areas:

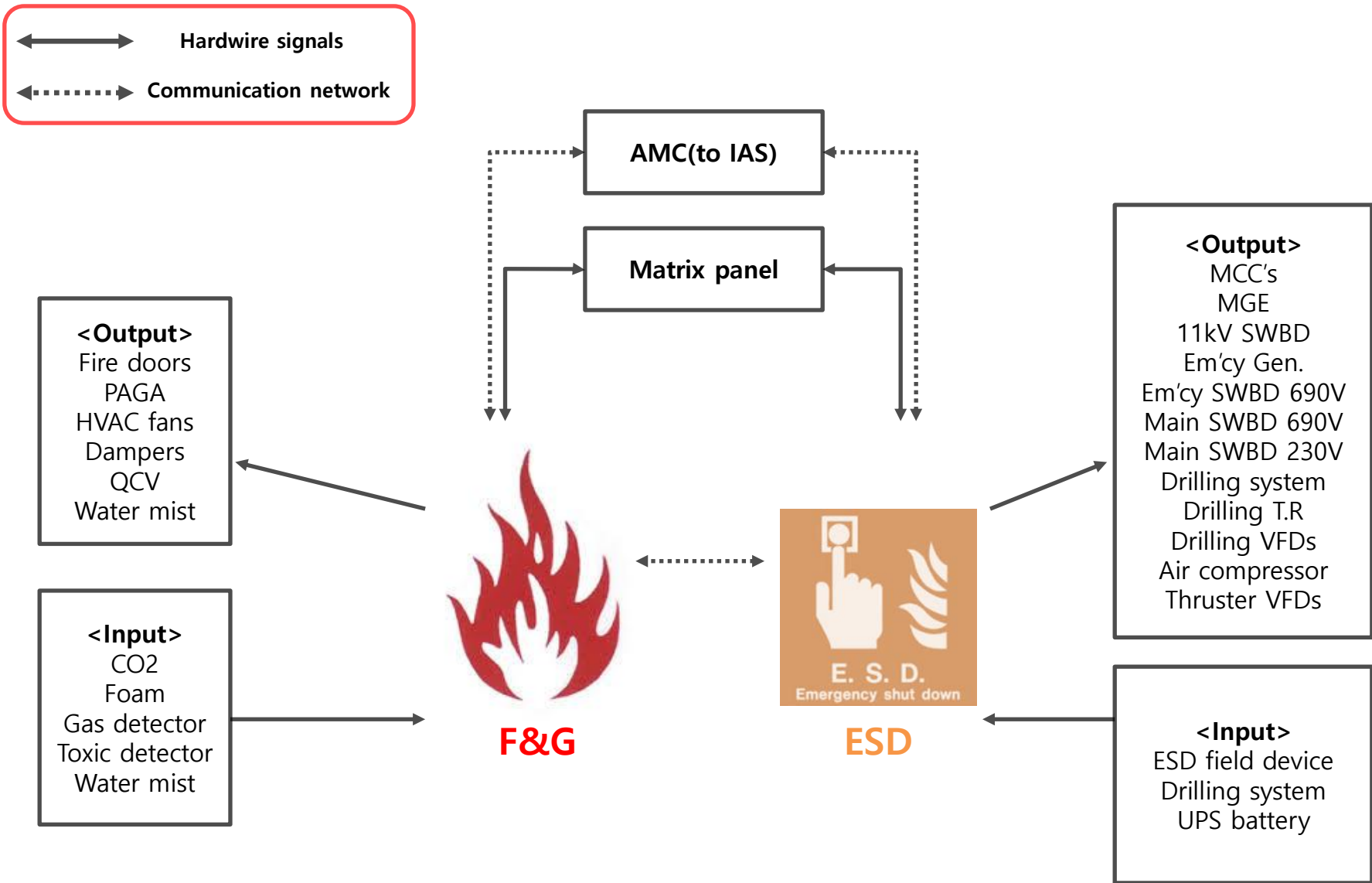
- i) Drill area
- ii) Mud processing area, and

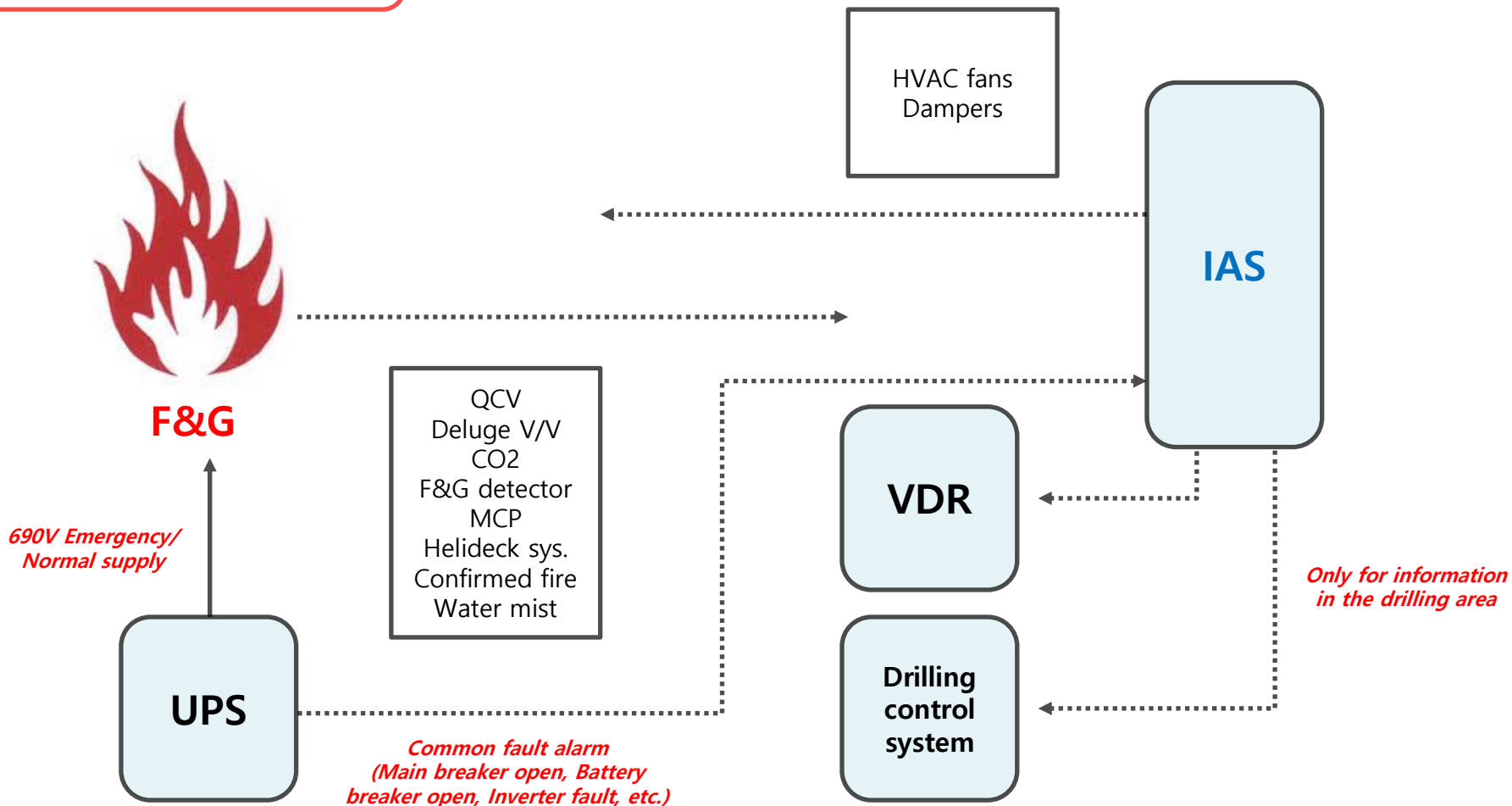
Hydrogen Sulfide(H₂S) detection and alarm system
Drill area, Mud processing area, Well test area.
Main control room에 alarm 및 위치정보 연결.
10ppm(H), 300ppm(H-H) alarm.
ALM 2min. 후 helideck status light alarm 발생.
Portable gas detector 제공. (최소 2개)
 If the alarm at the helideck status light is to be automatically activated.

5.5 Portable Hydrogen Sulfide Gas Detectors

At least two portable hydrogen sulfide gas monitoring devices should be provided on the unit.

Description	Model	Q'ty
SMOKE DETECTOR	811PH	471
MANUAL CALL POINT	CP820	37
FLAME DETECTOR	S271f+	23
SMOKE DETECTOR	801PHEX	11
MANUAL CALL POINT	CP830EXN	92
CO DETECTOR	811CHEXN	27
HEAT DETECTOR	811H	1
SMOKE DETECTOR	811PHEXN	87
MANUAL CALL POINT	CP840Ex	6
CO DETECTOR	801CHEX	11
HEAT DETECTOR	801HExn	1
HEAT DETECTOR	801HEX	2
SMOKE DETECTOR	OWNER SUPPLY	16
SMOKE DETECTOR DUCT MOUNTING	811PH + DPK4	2
TOXIC GAS DETECTION	SPXCDALMFXSPXCDALMHX	56
COMBUSTIBLE GAS DETECTION	SPXCDALMHXSPXCDALMFX	95
HYDROGEN GAS DETECTION	SPXCDALMG1	3
TOXIC GAS DETECTION	SPXCDALMFX(WITH DUCT MOUNTING KIT)	6
COMBUSTIBLE GAS DETECTION	SPXCDALMHX(WITH DUCT MOUNTING KIT)	6
DELUGE PUSHBUTTON	PBEB5B4DSS7B	3
MAGNETIC DOOR HOLDER	Door Release Unit (518.004.005)	9
ESD LEVEL 0 PUSH BUTTON	PBEB4B6BBDSS7X	10
ESD LEVEL 5A PUSH BUTTON 1	PBEB5B4DSS7R	37
IS BARRIER	IS Interface KFD0-CS-ES1.54 (517.001.245) EXI800 Interface (577.800.006) DX Enclosure (517.001.247)	10
COLD ALARM EQUIPMENT PACKAGE	-	1 set (with 4EA Cold Unit Push Buttons)
HOSPITAL EQUIPMENT PACKAGE	-	1 set (with 4EA Hospital Alarm Push Buttons)





VANTAGE *loop test*

1Loop = 64Register
= 256detector

통신데이터 프레임
(4EA)

Description 일치 여부 사전
점검 진행 중

FS301 Signal Tag	Description	Loop	Adr	Device Type	Register	Alarm Bit	Fault Bit	Pre-alarm Bit	Alarm	Fault	Pre-alarm	HMI	Comment
931-ZZ-01-038	E DECK CLEANING GEAR ROOM SD	A	38	det811PH	599	8	9	11	9592	9593	9595		
931-ZZ-01-039	E DECK 2-MEN CABIN A657 SD	A	39	det811PH	599	12	13	15	9596	9597	9599		
931-ZZ-01-040	E DECK 2-MEN CABIN A655 SD	A	40	det811PH	600	0	1	3	9600	9601	9603		
931-ZZ-01-041	E DECK 2-MEN CABIN A653 SD	A	41	det811PH	600	4	5	7	9604	9605	9607		
931-ZZ-01-042	E DECK 2-MEN CABIN A651 SD	A	42	det811PH	600	8	9	11	9608	9609	9611		
931-ZZ-01-043	E DECK 2-MEN CABIN A609 SD	A	43	det811PH	600	12	13	15	9612	9613	9615		
931-ZZ-01-044	E DECK2-MEN CABIN A611 SD	A	44	det811PH	601	0	1	3	9616	9617	9619		
931-ZZ-01-045	E DECK 2-MEN CABIN A613 SD	A	45	det811PH	601	4	5	7	9620	9621	9623		
931-ZZ-01-046	E DECK 2-MEN CABIN A615 SD	A	46	det811PH	601	8	9	11	9624	9625	9627		
931-ZP-01-047	E DECK STBD/FWD PASSAGEWAY MCP	A	47	CP830M	601	12	13	15	9628	9629	9631		
931-ZZ-01-048	E DECK PASSAGEWAY SD	A	48	det811PH	602	0	1	3	9632	9633	9635		
931-ZZ-01-049	E DECK 2-MEN CABIN A618 SD	A	49	det811PH	602	4	5	7	9636	9637	9639		

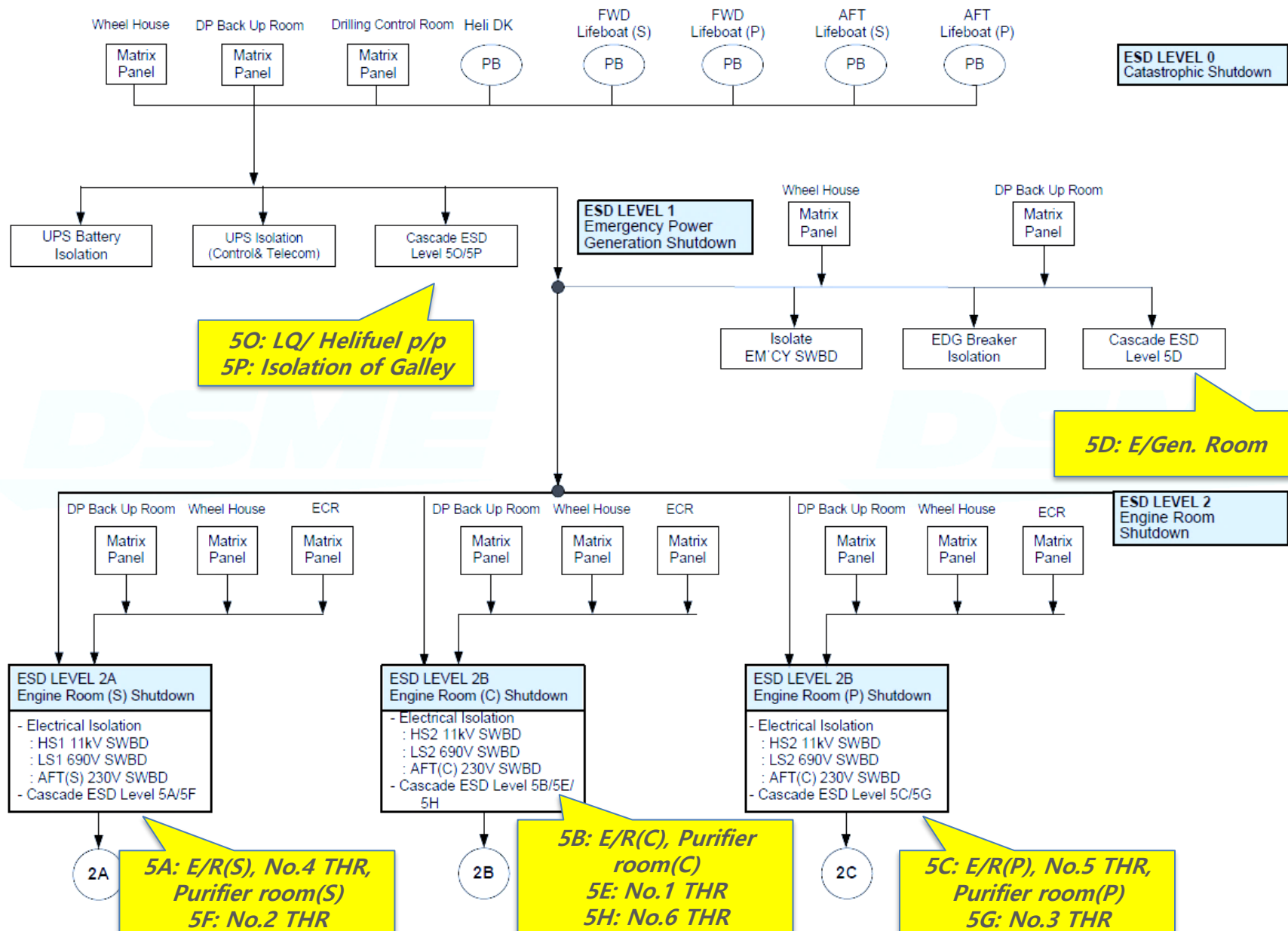
Tag No.
(WD 참조)

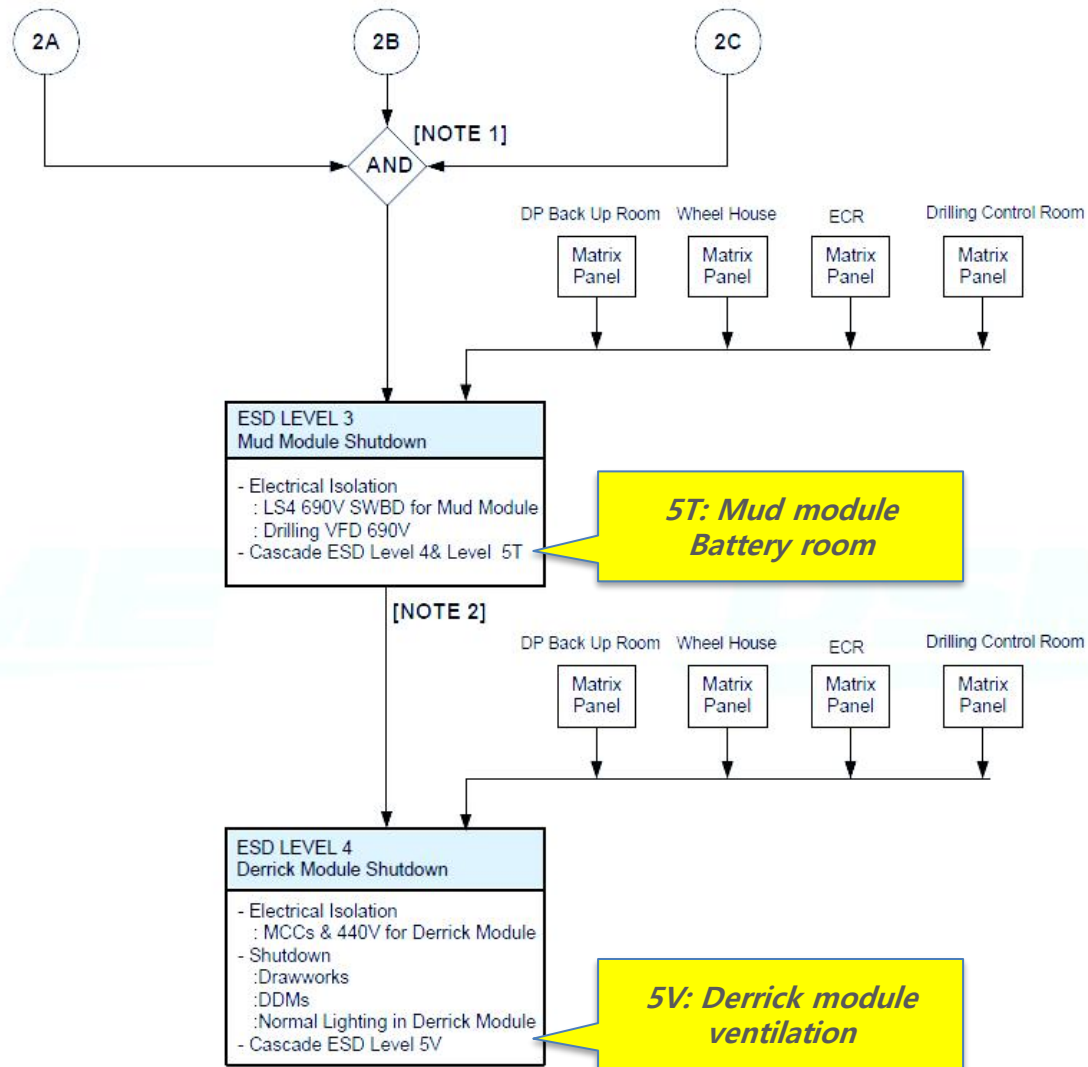
장비 Model No.

ALM/ FLT/ Pre-ALM
위한 On/Off bit

Tyco standard
format에 mapping

VANTAGE *ESD Level*





NOTE 1: An automatic Level 3 and Level 4 Shutdown are initiated by levels 2A, 2B and 2C cascading down simultaneously.

NOTE 2: An automatic Level 4 Shutdown is initiated by level 3 Shutdown cascading activation.

■ VANTAGE *C&E test (F&G, ESD)*

CAUSE AND EFFECT CHART
DSME PROJECT NO: 3618

Fire zone
정보

FIRE ZONE F105
TOP DECK BATTERY ROOM NO.2

DSME DOC NO: 3618DA931E002

**Effect
(Output)**

**Cause
(Input)**

Notes

PAGA A&B Alarm

OS Actions

Matrix

Effect 모두 Local 확인 필요.
많은 검사 시간 소요 예상됨.

C	23-Dec-14	3618	S.K.SEOL	SHEET 5	I/O Tag No
REV.	DATE	PPD			
<div>Cause (Input)</div>					
Notes					
Descriptions		Eqt Tag No	I/O Tag No		
AUTO / MANUAL KEYSWITCH				1	
				2	
SHUTDOWNS SELECTED TO MANUAL MODE AT WHEELHOUSE		933-IM-101	933-IM-101-XL-11	3	
SHUTDOWNS SELECTED TO MANUAL MODE AT DP BACKUP RM		933-IM-102	933-IM-102-XL-11	4	
				5	
FIRE DETECTION DEVICES				6	
				7	
TOP DECK BATTERY ROOM NO.2 SD		931-ZZ-07-004	Addressable	8	
				9	
GAS DETECTION DEVICES				10	
				11	
HC GAS HI LEVEL TOP DECK BATT RM NO2 AIR INTAKE		931-ZC-009	931-ZC-009	12	
HC GAS HI HI LEVEL TOP DECK BATT RM NO2 AIR INTAKE		931-ZC-009	931-ZC-009	13	
				14	

924-JM-002A-01	924-JM-002A-02	924-JM-002A-03	924-JM-002B-01	924-JM-002B-02	924-JM-002B-03																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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O : Inhibit
X : Action
T : 2Min. delay

COBALT EXPLORER

CAUSE AND EFFECT CHART DSME PROJECT NO: 3618

ESD Level

ESD Level 0
CATASTROPHIC SHUTDOWN

DSME DOC NO:

C	11-Nov-14	3618	S.K.SEOL	SHEET 1
REV.	DATE	PROJECT NO.	PPD	

CAUSES (Inputs)

AND 조건

Descriptions	Eqt Tag No.	I/O Tag No.	Notes
PB1 ESD LEVEL 0 Matrix Panel in Wheelhouse	933-IM-101	933-IM-101-XL-3A	1
AND			2 1
PB2 ESD LEVEL 0 Matrix Panel in Wheelhouse	933-IM-101	933-IM-101-XL-3B	3
			4
PB1 ESD LEVEL 0 Matrix Panel in DP Backup Room	933-IM-102	933-IM-102-XL-3A	5
AND			6 1
PB2 ESD LEVEL 0 Matrix Panel in DP Backup Room	933-IM-102	933-IM-102-XL-3B	7

EFFECTS (Outputs)

Descriptions			ESD CASCADE								OS Actions		Matrix Panel		
I/O Tag No	Eqt Tag No.		ESD Level 1 Emergency Power	ESD Level 5R Isolate Batts in Top Dk Batt Rm No.1	ESD Level 5S Isolate Batts in Top Dk Batt Rm No.2	ESD Level 5T Isolate Batts in Mud Module Batt Room	ESD Level 5-1 Isolate Batteries in Crane No.1	ESD Level 5-2 Isolate Batteries in Crane No.2	ESD Level 5-3 Isolate Batteries in Crane No.3	ESD Level 5-4 Isolate Batteries in Crane No.4	ESD Level 0 Status		ESD Level 0 Activated Status/Matrix Lamp	Matrix Panel Sounder Activation	ALL HVAC FANS & DAMPERS SHUTDOWN
<Soft>	<Soft>		<Soft>	<Soft>	<Soft>	<Soft>	<Soft>	<Soft>	<Soft>	<Soft>	<Soft>		<Soft>	<Soft>	<Soft>
1	2	3	4	5	6	7	8	9	10	11	12	13			
1	X	X	X	X	X	X	X	X		X			X	X	X
1	X	X	X	X	X	X	X	X		X			X	X	X

Date	Time	Name	Comment	Status	Priority	Type	Group	Value	Limit	Open
Update Successful										

ACK
 Ack ALL
 SUMMARY
 HISTORY

NETWORK STATUS
SYSTEM DIAGNOSTICS

USER : XXXXXXXXXXXX

ESD LEVEL 0

CATASTROPHIC SHUTDOWN

MAIN OVERVIEW

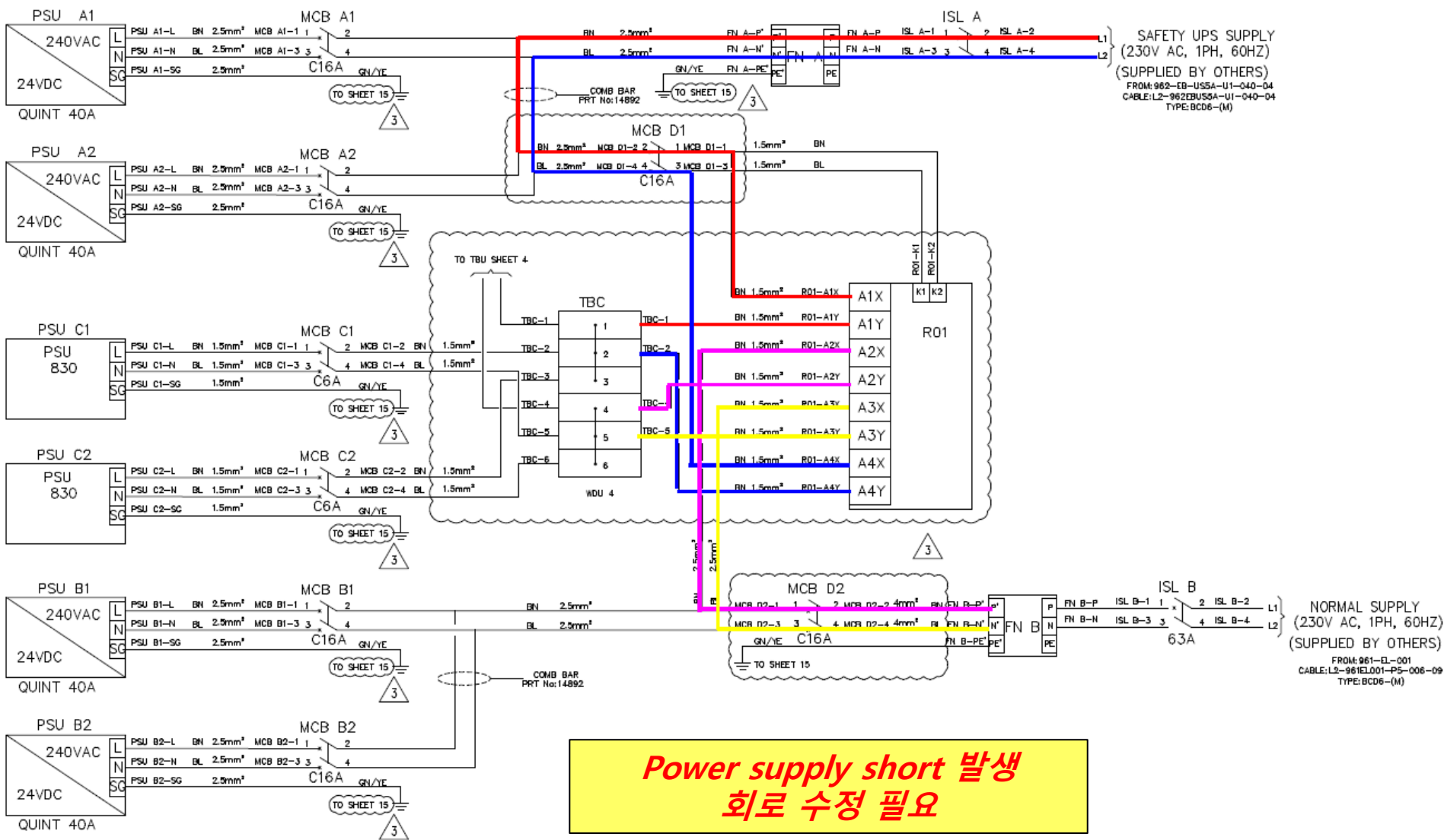
ESD OVERVIEW

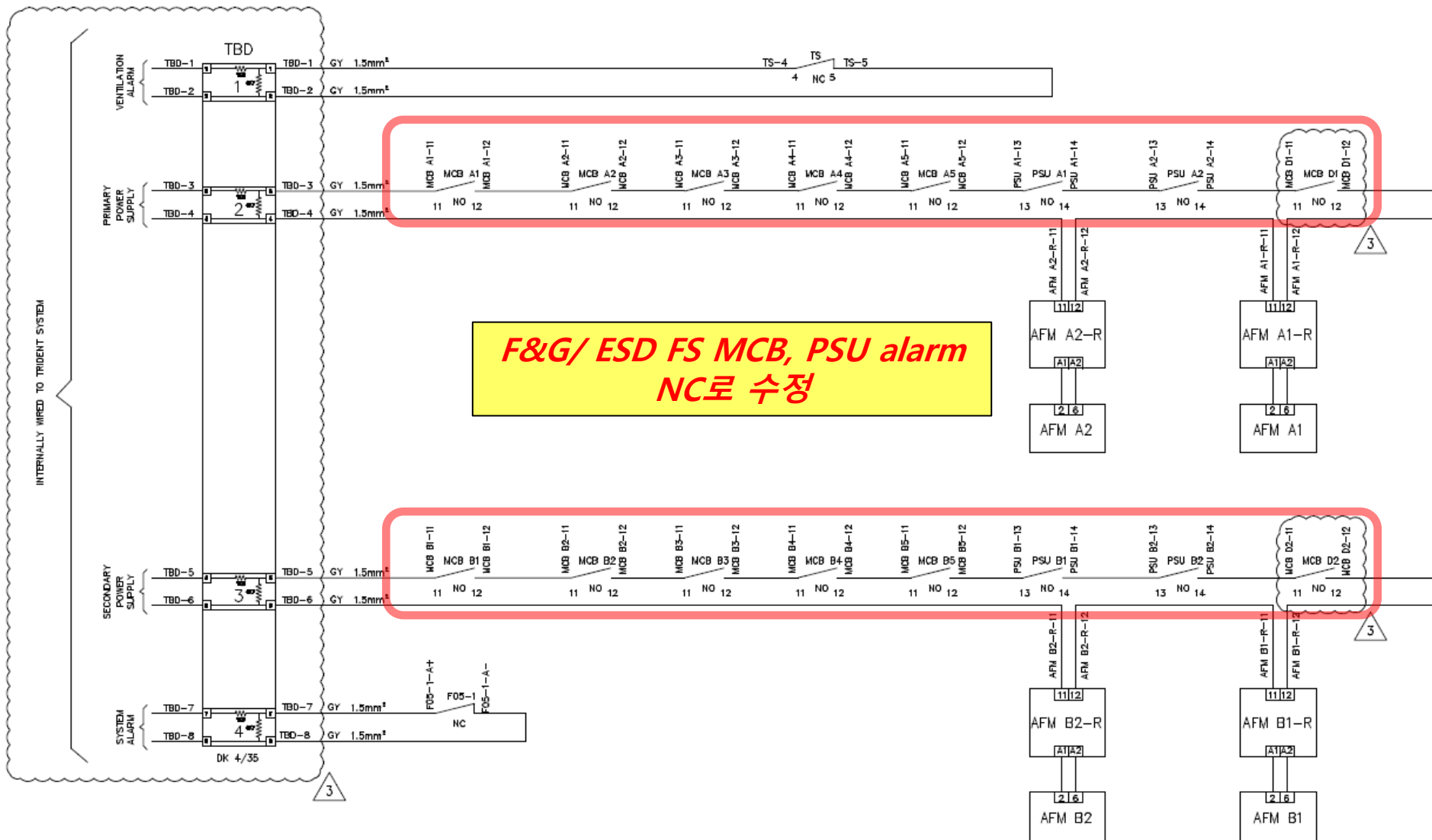
T - TIME DELAY OF 30 MINUTES
 T1 - TIME DELAY OF 31 MINUTES
 T2 - TIME DELAY OF 60 SECONDS
 T3 - TIME DELAY OF 20 SECONDS

SHEET 1

CAUSES		EFFECTS	
DESCRIPTION	I/O TAG NO.	I/O TAG NO.	DESCRIPTION
PB1 ESD LEVEL 0 MATRIX PANEL IN WHEELHOUSE	933-IM-101-XL-3A	<SOIT>	ESD LEVEL 1
PB2 ESD LEVEL 0 MATRIX PANEL IN WHEELHOUSE	933-IM-101-XL-3B	<SOIT>	ESD LEVEL STATUS
PB1 ESD LEVEL 0 MATRIX PANEL IN DP BACKUP ROOM	933-IM-102-XL-3A	<SOIT>	ALL FAN AND DAMPER SHUTDOWN
PB2 ESD LEVEL 0 MATRIX PANEL IN DP BACKUP ROOM	933-IM-102-XL-3B	962-IB-U064-XSD-1	BATTERY ISOLATION OF NAV UPS A
PB1 ESD LEVEL 0 MATRIX PANEL IN DRILLER'S CONTROL ROOM	933-IM-104-XL-3A	962-IB-US1A-XSD-1	BATTERY ISOLATION OF DRILLING UPS A
PB2 ESD LEVEL 0 MATRIX PANEL IN DRILLER'S CONTROL ROOM	933-IM-104-XL-3B	962-IB-US1B-XSD-1	BATTERY ISOLATION OF DRILLING UPS B
PB1 ESD LEVEL 0 PUSH BUTTON IN HELIDECK	933-ESD-001-XL-1	962-IB-US1C-XSD-1	BATTERY ISOLATION OF DRILLING UPS C
PB2 ESD LEVEL 0 PUSH BUTTON IN HELIDECK	933-ESD-001-XL-2	962-IB-U010A-XSD-1	BATTERY ISOLATION OF F&G UPS A
PB1 ESD LEVEL 0 PUSH BUTTON IN FWD LIFEBOAT STATION (STBD)	933-ESD-001-XL-1	962-IB-U010B-XSD-1	BATTERY ISOLATION OF F&G UPS B
PB2 ESD LEVEL 0 PUSH BUTTON IN FWD LIFEBOAT STATION (STBD)	933-ESD-001-XL-2	962-IB-U014-XSD-2	BATTERY ISOLATION OF AFT LAB UPS 1
PB1 ESD LEVEL 0 PUSH BUTTON IN FWD LIFEBOAT STATION (PORT)	933-ESD-001-XL-1	962-IB-U01C-XSD-2	BATTERY ISOLATION OF AFT LAB UPS 2
PB2 ESD LEVEL 0 PUSH BUTTON IN FWD LIFEBOAT STATION (PORT)	933-ESD-001-XL-2	962-IB-U01D-XSD-2	BATTERY ISOLATION OF AFT LAB UPS 3
PB1 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-1	962-IB-U01E-XSD-2	BATTERY ISOLATION OF FWD LAB UPS 4
PB2 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-2	962-IB-U02A-XSD-2	BATTERY ISOLATION OF FWD LAB UPS 5
PB1 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (PORT)	933-ESD-001-XL-1	962-IB-U02B-XSD-2	BATTERY ISOLATION OF DP1 UPS
PB2 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (PORT)	933-ESD-001-XL-2	962-IB-U04A-XSD-2	BATTERY ISOLATION OF DP2 UPS
PB1 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-1	962-IB-U04A-XSD-2	BATTERY ISOLATION OF DP2 UPS
PB2 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-2	962-IB-U04A-XSD-2	BATTERY ISOLATION OF F&G FWD UPS
PB1 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (PORT)	933-ESD-001-XL-1	B30-E-120A-XSD-1	BATTERY ISOLATION OF F&G FWD UPS
PB2 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (PORT)	933-ESD-001-XL-2	B30-E-120B-XSD-1	BATTERY ISOLATION OF BOP UPS A
PB1 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-1	962-IB-U014A-XSD-1	BATTERY ISOLATION OF BOP UPS B
PB2 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-2	962-IB-U03A-XSD-2	BATTERY ISOLATION OF STANBY LIGHT COLUMN UPS
PB1 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (PORT)	933-ESD-001-XL-1	962-IB-U014A-XSD-2	BATTERY ISOLATION OF ESD UPS
PB2 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (PORT)	933-ESD-001-XL-2	962-IB-U014A-XSD-2	CIRCUIT BREAKER FOR EMERG. LIGHTS UPS (Q100)
PB1 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-1	962-IB-U014A-XSD-3	BATTERY ISOLATION OF EMERGENCY LIGHTS (Q55)
PB2 ESD LEVEL 0 PUSH BUTTON IN AFT LIFEBOAT STATION (STBD)	933-ESD-001-XL-2	943-IB-U011A-XSD-1	BATTERY ISOLATION OF THRUSTER VFD 1 UPS

VANTAGE Drawing





- *Pre-alarm. Actual alarm간 description color 변경*
- *Alarm 발생시 해당 페이지로 바로 이동할 수 있는 function 추가*
- *Fire MIMIC-IAS-Matrix panel간 description 일치*
- *Gas 종류에 따라 색상 구분 (H2S : Blue, HC : Yellow)*
- *Damper No/NC 상태 표기*
- *ESD Activation시 색상 표시*
- *3rd party에 대한 signal output 확인*
- *기타 H/W F.A.T 에 대한 punch 완료*

Operations Management

MEMORANDUM

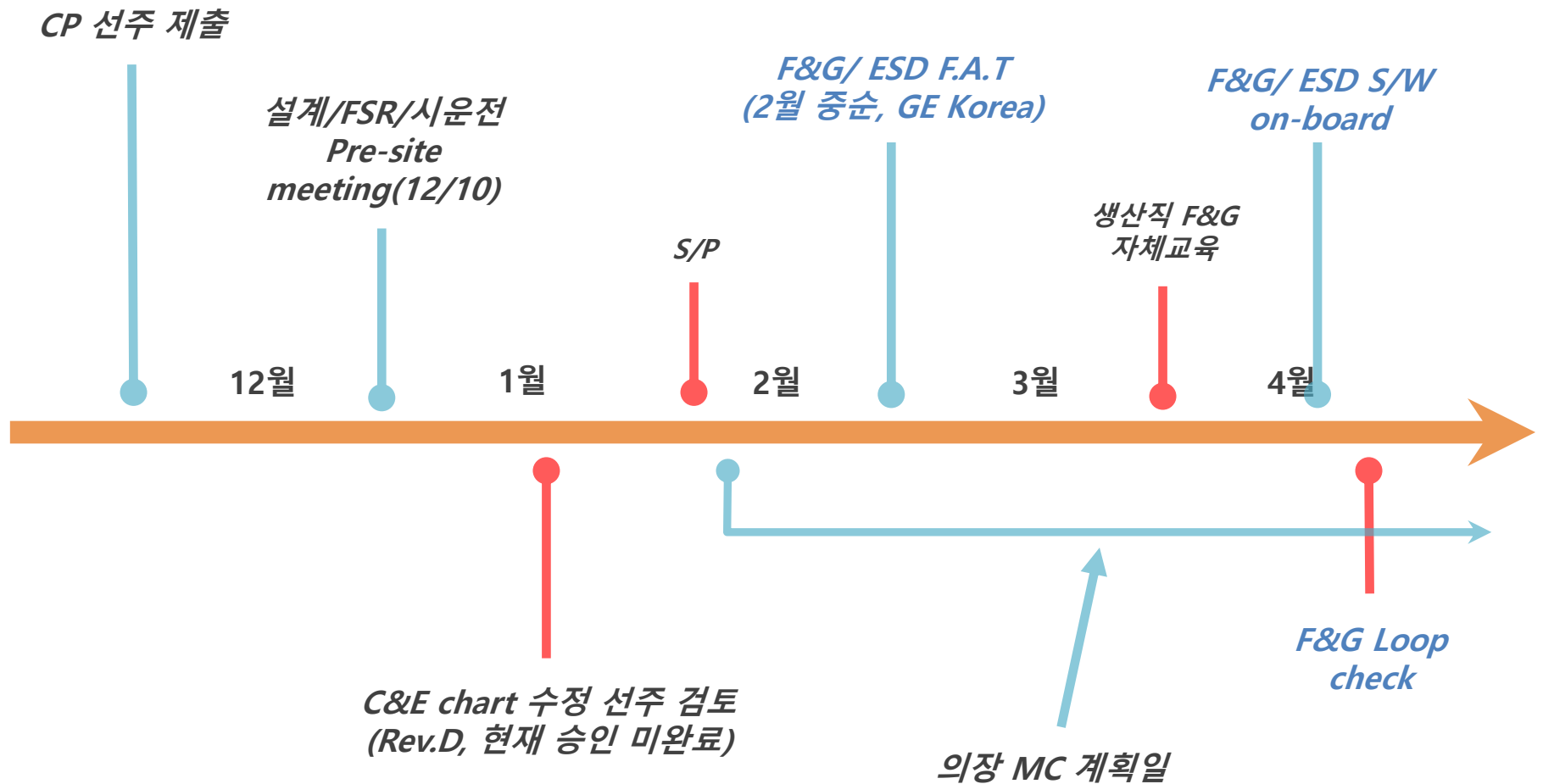
MINUTE OF MEETING						
Date	02.Jun.2014 to 18.Jun-2014					
Author	Karthik M – Schneider/Invensys					
Location	GE – Geoje Office – South Korea					
Attendee	Company	Name	Sign.	Company	Name	Sign.
	Vantage	Graham Ralfe		Schneider	Karthik M	
	DSME	SK Soel		Schneider	S G Kim	
	DSME	Attri Nishchal				
	GE	Eun-Jin				
Purpose	HMI workshop for Safety system and C&E workshop					

S.No	Comments	Action
1.	The alarm banner, summary page and history page column title to be updated with Tag Name and Description and with sufficient width to allow reading the tag name and description.	Please refer to the attachment of the sample pages.
2.	The alarm banner shall show only the current unack alarm and the new alarm shall register at the top. Only the following columns shall be shown – time stamp, tag, description and operator.	Agreed
3.	The room descriptions on the F&G level 3 layout are to be updated. DSME to provide the updated F&G device GA drawing to update the same on the graphics.	DSME to provide

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VANTAGE *Schedule*



FS201	FS202	FS301A	FS302	FS303	FS304	FS305
03/12	02/10	04/06	04/06	01/28	01/28	01/28

