

CONTROLLER: GDC-G1

LOCATION: GRIT MOTOR ROOM
DRAEGER DRAEGERGARD 8/16

MAIN BOARD						
TB	R	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
TB1	A3	G501-QF	GDC-G1 COMMON FAULT	1-0102G-A0066	N/A	
INPUT CHANNELS						
MODULE	CH	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
AI-1	1	G501-AT01	WET WELL CEILING METHANE LEVEL	1-0102G-A0056	1-0102G-A0044	
AI-1	2	G501-AT02	WEST WET WELL HC LEVEL	1-0102G-A0056	1-0102G-A0044	ON SAMPLE PANEL
AI-1	3	G501-AT03	EAST WET WELL HC LEVEL	1-0102G-A0056	1-0102G-A0044	ON SAMPLE PANEL
AI-1	4	G501-AT04	WET WELL H ₂ S LEVEL	1-0102G-A0056	1-0102G-A0044	
AI-1	5	G502-AT01	DRY WELL H ₂ S LEVEL	1-0102G-A0057	1-0102-A0045	
AI-1	6	G502-AT02	DRY WELL O ₂ LEVEL	1-0102G-A0057	1-0102-A0045	
AI-1	7	SPARE				
AI-1	8	SPARE				
AI-2	9	SPACE				
AI-2	10	SPACE				
AI-2	11	SPACE				
AI-2	12	SPACE				
AI-2	13	SPACE				
AI-2	14	SPACE				
AI-2	15	SPACE				
AI-2	16	SPACE				

RELAY OUTPUT CHANNELS
RO-1: S1 SET TO 5 (CH1-8 A1)

RELAY OUTPUT CHANNELS						
MODULE	CH	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
RO-1	1	G501-AA01	WET WELL HORN & STROBE	1-0102G-A0058	1-0102G-A0044	CH ZONE 1 & 2 & 3 & 4
RO-1	2	SA-G501-AA	WET WELL DCS ALARM	1-0102G-A0058	N/A	CH ZONE 1 & 2 & 3 & 4
RO-1	3	N/A	VENTILATION INTERLOCK	1-0102G-A0065	N/A	CH ZONE 1 & 2 & 3 & 4
RO-1	4	SPARE				CH ZONE 1 & 2 & 3 & 4
RO-1	5	G502-AA01	DRY WELL HORN & STROBE	1-0102G-A0069	1-0102G-A0045	CH ZONE 5 & 6
RO-1	6	SA-G502-AA	DRY WELL DCS ALARM	1-0102G-A0069	N/A	CH ZONE 5 & 6
RO-1	7	SPARE				
RO-1	8	SPARE				
RO-2	9	SPACE				
RO-2	10	SPACE				
RO-2	11	SPACE				
RO-2	12	SPACE				
RO-2	13	SPACE				
RO-2	14	SPACE				
RO-2	15	SPACE				
RO-2	16	SPACE				

CONTROLLER: GDC-G2

LOCATION: HALLWAY G137
DRAEGER DRAEGERGARD 8/16

MAIN BOARD						
TB	R	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
TB1	A3	G503-QF	GDC-G2 COMMON FAULT	1-0102G-A0066	N/A	
INPUT CHANNELS						
MODULE	CH	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
AI-1	1	G503-AT01	SCREEN ROOM METHANE LEVEL	1-0102G-A0059	1-0102G-A0046	
AI-1	2	G503-AT02	SCREEN ROOM H ₂ S LEVEL	1-0102G-A0059	1-0102G-A0046	
AI-1	3	G503-AT03	TRUCK BAY HC LEVEL	1-0102G-A0060	1-0102G-A0046	
AI-1	4	G503-AT04	TRUCK BAY H ₂ S LEVEL	1-0102G-A0060	1-0102G-A0046	
AI-1	5	G504-AT01	GRIT TANK ROOM METHANE LEVEL	1-0102G-A0061	1-0102G-A0046	
AI-1	6	G504-AT02	GRIT TANK ROOM H ₂ S LEVEL	1-0102G-A0061	1-0102G-A0046	
AI-1	7	SPARE				
AI-1	8	SPARE				
AI-2	9	SPACE				
AI-2	10	SPACE				
AI-2	11	SPACE				
AI-2	12	SPACE				
AI-2	13	SPACE				
AI-2	14	SPACE				
AI-2	15	SPACE				
AI-2	16	SPACE				

RELAY OUTPUT CHANNELS
RO-1: S1 SET TO 5 (CH1-8 A1)

RELAY OUTPUT CHANNELS						
MODULE	CH	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
RO-1	1	G503-AA01	SCREEN ROOM/TRUCK BAY HORN & STROBE	1-0102G-A0062	1-0102G-A0046	CH ZONE 1 & 2 & 3 & 4
RO-1	2	SA-G503-AA	SCREEN ROOM/TRUCK BAY DCS ALARM	1-0102G-A0062	N/A	CH ZONE 1 & 2 & 3 & 4
RO-1	3	N/A	VENTILATION INTERLOCK	1-0102G-A0065	N/A	CH ZONE 1 & 2 & 3 & 4
RO-1	4	SPARE				CH ZONE 1 & 2 & 3 & 4
RO-1	5	G504-AA01	GRIT TANK ROOM HORN & STROBE	1-0102G-A0070	1-0102G-A0046	CH ZONE 5 & 6
RO-1	6	SA-G504-AA	GRIT TANK ROOM DCS ALARM	1-0102G-A0070	N/A	CH ZONE 5 & 6
RO-1	7	SPARE				
RO-1	8	SPARE				
RO-2	9	SPACE				
RO-2	10	SPACE				
RO-2	11	SPACE				
RO-2	12	SPACE				
RO-2	13	SPACE				
RO-2	14	SPACE				
RO-2	15	SPACE				
RO-2	16	SPACE				
RO-3	1	SPARE				CH ZONE 1 & 2 & 3 & 4
RO-3	2	SPARE				CH ZONE 1 & 2 & 3 & 4
RO-3	3	SPARE				CH ZONE 1 & 2 & 3 & 4
RO-3	4	SPARE				CH ZONE 1 & 2 & 3 & 4
RO-3	5	N/A	VENTILATION INTERLOCK	1-0102G-A0065	N/A	CH ZONE 5 & 6
RO-3	6	SPARE				CH ZONE 5 & 6
RO-3	7	SPARE				
RO-3	8	SPARE				

CONTROLLER: GDC-G3

LOCATION: 1000KW GENERATOR BUILDING
DRAEGER DRAEGERGARD 8/16

MAIN BOARD						
TB	R	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
TB1	A3	G319-QF	GDC-G3 COMMON FAULT	1-0102G-A0066	N/A	
INPUT CHANNELS						
MODULE	CH	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
AI-1	1	G319-AT01	1000KW GENERATOR RM METHANE LEVEL	1-0102G-A0063	1-0102G-A0047	
AI-1	2	OFF				(1)
AI-1	3	B550-AT01	BOILER ROOM METHANE LEVEL	1-0102B-A0028	1-0102B-A0027	
AI-1	4	OFF				(1)
AI-1	5	SPARE				
AI-1	6	SPARE				
AI-1	7	SPARE				
AI-1	8	SPARE				
AI-2	9	SPACE				
AI-2	10	SPACE				
AI-2	11	SPACE				
AI-2	12	SPACE				
AI-2	13	SPACE				
AI-2	14	SPACE				
AI-2	15	SPACE				
AI-2	16	SPACE				

RELAY OUTPUT CHANNELS
RO-1: S1 SET TO 5 (CH1-8 A1)

RELAY OUTPUT CHANNELS						
MODULE	CH	ID	DESCRIPTION	LOOP DWG	LOCATION DWG	NOTES
RO-1	1	G319-AA01	1000KW GENERATOR RM HORN & STROBE	1-0102G-A0064	1-0102G-A0047	CH ZONE 1 & 2
RO-1	2	SA-G319-AA	1000KW GENERATOR RM DCS ALARM	1-0102G-A0064	N/A	CH ZONE 1 & 2
RO-1	3	B550-AA01	BOILER ROOM HORN & STROBE	1-0102B-A0029	1-0102B-A0027	CH ZONE 3 & 4
RO-1	4	SA-B550-AA	BOILER ROOM DCS ALARM	1-0102B-A0029	N/A	CH ZONE 3 & 4
RO-1	5	SPARE				
RO-1	6	SPARE				
RO-1	7	SPARE				
RO-1	8	SPARE				
RO-2	9	SPACE				
RO-2	10	SPACE				
RO-2	11	SPACE				
RO-2	12	SPACE				
RO-2	13	SPACE				
RO-2	14	SPACE				
RO-2	15	SPACE				
RO-2	16	SPACE				
RO-3	1	G319-VY	NATURAL GAS VALVE INTERLOCK	1-0102G-A0064	N/A	CH ZONE N/A (2)
RO-3	2	SPARE				CH ZONE N/A (2)
RO-3	3	SPARE				CH ZONE N/A (2)
RO-3	4	SPARE				CH ZONE N/A (2)
RO-3	5	SPARE				(2)
RO-3	6	SPARE				(2)
RO-3	7	SPARE				(2)
RO-3	8	SPARE				(2)

SPECIFIC NOTES:
1. INPUT CHANNEL HAS BEEN TURNED OFF AND ZONED WITH PRECEDING CHANNEL IN ORDER TO USE ADDITIONAL OUTPUT RELAYS.
2. ALARM A2 IS SET FOR FAILSAFE MODE. CHANNEL ZONES ARE NOT ALLOWED.



		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080		ENGINEER'S SEAL	
DESIGNED BY:	T. CHURCH	CHECKED BY:	C. REIMER	ORIGINAL DRAWING SEALED BY: T. M. CHURCH SNC-LAVALIN MEMBER # 32682 2011/03/25 REV. 00	
DRAWN BY:	S. COATES	APPROVED BY:	C. REIMER		
SCALE:	NTS	RELEASED FOR CONSTRUCTION BY:	N. HARRINGTON		
DATE:	2009/10/23	DATE:	2011/03/11		
ISSUED FOR TENDER, BID OPP. 209-2011	2011/03/11	TMC	CJR	CITY DRAWING NUMBER 1-0102G-A0049	
NO. REVISIONS	DATE	DESIGN	CHECK	CONSULTANT NO.:	112577-0106-48DD-1205
				SHEET	001
				REV.	00
				SIZE	A1