Base Load Power Hub (BLPH)

ELECTRICAL HEAT TRACING

EHT INSTRUMENT HOOK-UP

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Document Class: 2

Rev.	Date	Description	Prepared	Reviewed	Approved
03	13-01-25	Accepted for Construction (AFC)	A. Dumitru	A. Martelli	G. Pupilli
02	09-12-24	Issue for Review (IFR)	A. Dumitru	A. Martelli	G. Pupilli
01	29-10-24	Issue for Review (IFR)	A. Dumitru	A. Martelli	G. Pupilli
00	23-09-24	Issue for Review (IFR)	A. Dumitru	A. Martelli	G. Pupilli

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ISSUE FOR REVIEW (IFR)
02	ISSUE FOR REVIEW (IFR)
03	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

No.	Description
1.	
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4.	

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CAD FILENAME: PIT240024_DD03_2001_001_03.dwg

HEAT TRACING DATA

HEATER REFERENCE	DESIGN AREA	HEATER CAT. NUMBER	PIPE LENGTH (m)	HEATER LENGTH (m)	CIRCUIT BREAKER CURRENT (A)	OPERATING LOAD (W)	HEATER VOLTAGE (V)	HEAT LOSS (W/m)	POWER OUTPUT (W/m)	SHEATH TEMP. (°C)
EHT-2001-A	INSTRUMENT	3BTV2-CT	3.0	7.3	0.5	81	230	3.9	10.7	85
TOTALS			3.0	7.3	0.5	81				

HEATER ADDER TABLE

PIPE SIZE (Ins)	TYPE	QTY	ALLOWANCE PER ITEM (m)	TOTAL ALLOWANCE (m)

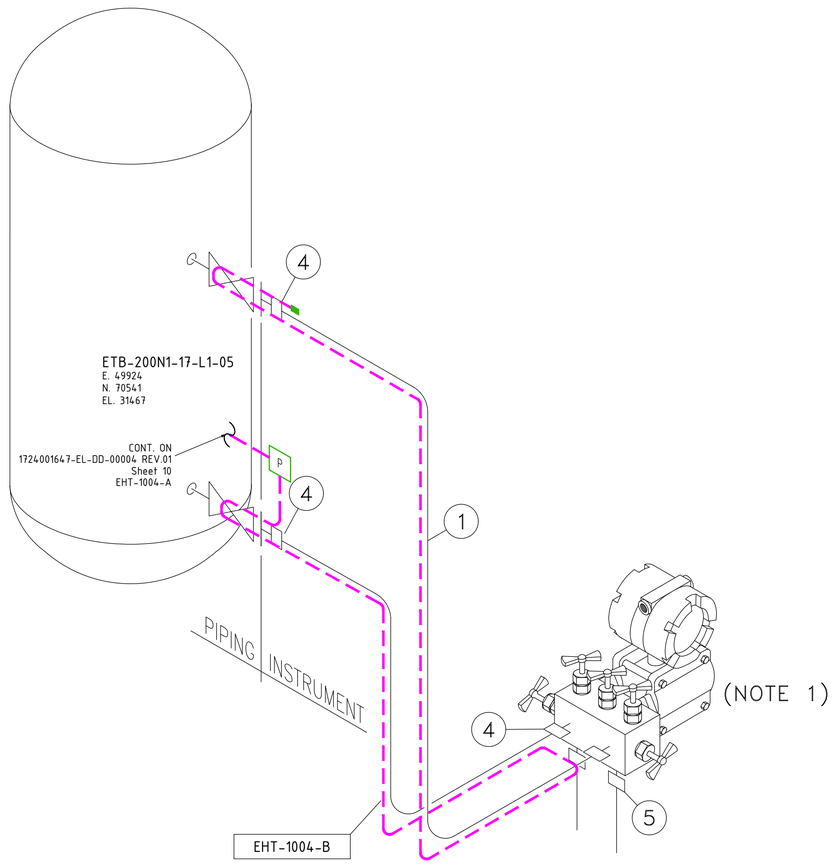
DESIGN PARAMETERS

CIRCUIT NUMBER	2001	AREA CLASSIFICATION	HAZARDOUS/ZN.1
		T-RATING	T3
MAINTAIN TEMP.	5°C		
OPERATING TEMP.	11°C	INSULATION TYPE	RW/MF 1:2015
MAX. EXPOSURE TEMP.	11°C	INSULATION THICKNESS	20mm
MAX. ALLOWABLE TEMP.	100°C		
MAX. AMBIENT TEMP.	40°C		
MIN. AMBIENT TEMP.	-9°C		

COMPONENT BILL OF MATERIALS

CAT. NUMBER	QTY	UNIT	PRODUCT DESCRIPTION
3BTV2-CT	7.3	m	Raychem Self-Regulating Heating Cable
GS-54	0.3	each	Glass Tape (16m/roll), suited for SS pipes
LAB-I-01	2	each	Warning Label - English
E-20	1	each	Heat shrink end seal, ATEX (BTV, QTVR)

ELECTRICAL HOOK-UP FOR LEVEL TRANSMITTERS (DP CELL TYPE)



LINE NUMBERS

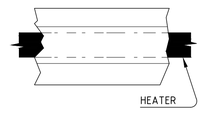
43-LT-001

REFERENCE DRAWINGS / DOCUMENTS

GENERAL NOTES

1. TRACE HEATING PRODUCTS ARE TO BE INSTALLED IN STRICT ACCORDANCE TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. THE PRECISE LOCATION OF EACH TRACE HEATING COMPONENT TO BE DETERMINED AT SITE.
3. ELEXANT 5010i WILL BE INSTALLED ON RACKS.
4. HEATING CABLE ALLOWANCES PROVIDED IN THE 'EHT ADDER TABLE' FOR FLANGES AND VALVES ARE IN ADDITION TO THEIR LINEAR LENGTHS.

ALUMINIUM TAPE (REF: ATE180)



SECURE HEATER TO PIPE / VESSEL / EQUIPMENT BODY BY APPLYING ALUMINIUM TAPE ALONG THE FULL LENGTH OF HEATER

CROSSWIND

ROSETTI MARINO

nVent RAYCHEM TRACER

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NVENT PROJECT NO.: PIT240024

REV.	DATE	DESCRIPTION	BY	CHK	APP
03	13/01/2025	ACCEPTED FOR CONSTRUCTION	ADU	AMI	GPI
02	29/11/2024	ISSUED FOR REVIEW	ADU	AMI	GPI
00	23/09/2024	ISSUED FOR REVIEW	ADU	AMI	GPI

CLIENT PROJECT NO.

DOC CODE

PROJECT TITLE: HOLLANDSE KUST NOORD WIND PARK Project
ELECTRICAL HEAT TRACING SYSTEM

DESIGNER: A. Dumitru

LEAD ENG.: A. Martelli

DRAWING TITLE: ELECTRICAL HEAT TRACING
INSTRUMENT HOOK-UP

SCALE	DRAWING NO.	SHEET NO.	REVISION
N/A	1724001647-IN-HD-00010	3/4	03

A1

CAD FILENAME: PIT240024_DD03_2002_001_03.dwg

HEAT TRACING DATA

HEATER REFERENCE	DESIGN AREA	HEATER CAT. NUMBER	PIPE LENGTH (m)	HEATER LENGTH (m)	CIRCUIT BREAKER CURRENT (A)	OPERATING LOAD (W)	HEATER VOLTAGE (V)	HEAT LOSS (W/m)	POWER OUTPUT (W/m)	SHEATH TEMP. (°C)
EHT-2002-A	INSTRUMENT	3BTV2-CT	3.0	7.3	0.5	81	230	3.9	10.7	85
TOTALS			3.0	7.3	0.5	81				

HEATER ADDER TABLE

PIPE SIZE (Ins)	TYPE	QTY	ALLOWANCE PER ITEM (m)	TOTAL ALLOWANCE (m)

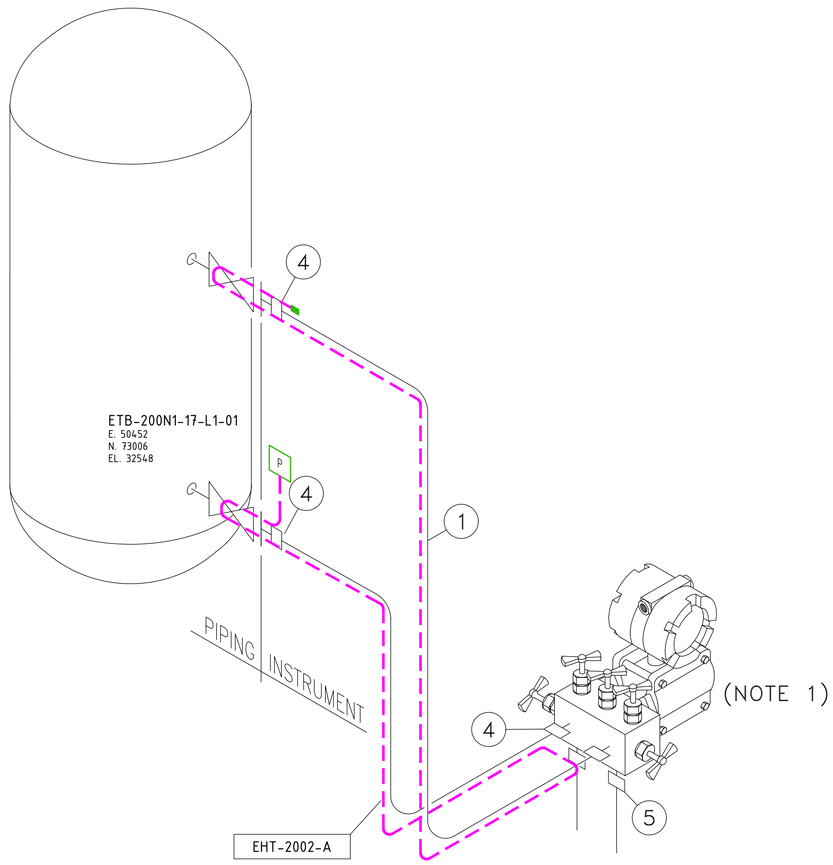
DESIGN PARAMETERS

CIRCUIT NUMBER	2002	AREA CLASSIFICATION	HAZARDOUS/ZN.1
		T-RATING	T3
MAINTAIN TEMP.	5°C		
OPERATING TEMP.	11°C	INSULATION TYPE	RW/MF 1:2015
MAX. EXPOSURE TEMP.	11°C	INSULATION THICKNESS	20mm
MAX. ALLOWABLE TEMP.	100°C		
MAX. AMBIENT TEMP.	40°C		
MIN. AMBIENT TEMP.	-9°C		

COMPONENT BILL OF MATERIALS

CAT. NUMBER	QTY	UNIT	PRODUCT DESCRIPTION
3BTV2-CT	7.3	m	Raychem Self-Regulating Heating Cable
JBS-100-EP	1	each	Single entry power connection, EP, ATEX
PSE-090	1	each	Pipe Strap for 1.1/4' to 3' (40-90mm)
GS-54	0.3	each	Glass Tape (16m/roll), suited for SS pipes
LAB-I-01	2	each	Warning Label - English
E-20	1	each	Heat shrink end seal, ATEX (BTV, QTVR)
JBS-SPA	0.2	bag	Small Pipe Adapter for E-100, JBS-100, and JS-100

ELECTRICAL HOOK-UP FOR LEVEL TRANSMITTERS (DP CELL TYPE)



LINE NUMBERS

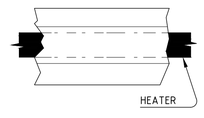
43-LT-003

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N/A	1724001647-IN-HD-00010	4/4	03

A1