



LOGICS:

- THE PLC 180 WOULD BE PROGRAMMED TO GENERATE THREE LEVEL ALARM SIGNALS FROM THE BIN LEVEL SIGNAL LT 15.1.1. THESE ALARMS ARE INTENDED TO WARN THE OPERATORS OF A RISING LEVEL IN THE WET CAKE BIN WHICH NEEDS ATTENTION.
- THE THREE ALARMS AND THEIR RESPECTIVE ACTIONS ARE SUMMARIZED BELOW:

DESCRIPTION OF THE ALARM	SIGNIFIES THAT.....	ACTION INTENDED / BY WHOM
LSH 1 15.1.1	THE BIN LEVEL IS RISING AND NEEDS ATTENTION.	ACKNOWLEDGEMENT AND TAKE SUITABLE ACTION / SPB OPERATOR
LSH 2 15.1.1	BIN LEVEL IS HIGH AND CAN TAKE MATERIAL FOR A MAXIMUM OF 15 MINUTES.	SEQUENCED SHUTDOWN OF BFP/ PROGRAMMING IN PLC 160, BY A CHOSEN CONTRACTOR.
	AFTER THIS ALARM AND ITS ACTION, IT IS ALSO RECOMMENDED THAT, DIVERTOR GATE G-180-1 BE PARKED IN "TRUCK" POSITION, SO THAT IF BFP'S WHERE TO BE RESTARTED, OVERTOPPING OF WET CAKE BIN IS AVOIDED.	
LSH 3 15.1.1	BIN LEVEL IS NEAR OVERFLOW.	SHUTDOWN OF THE WET CAKE BIN SCREW CONVEYOR / PROGRAMMING IN PLC 180 BY ANDRITZ.

LEGEND:

— EXISTING EQUIPMENT

— NEW EQUIPMENT

NOTES:

- ALL ITEMS WITH A SINGLE (*) ARE IN ANDRITZ SUPPLY.
- ALL PNEUMATIC TUBING AND ELECTRICAL WIRING SHALL BE DONE BY CONTRACTOR.

KEY NOTES:

- DEVICE G-180-01 IS A PNEUMATICALLY OPERATED DIVERTING GATE IN A SPLITTER BOX ASSEMBLY. THE ENTIRE ASSEMBLY WITH DOUBLE ACTING CYLINDERS (DC); SOLENOID VALVES (S1 AND S2); LIMIT SWITCHES (ZS-1 AND ZS-2); LOCAL CONTROL STATION (LCS-180-1) SHALL BE IN ANDRITZ SCOPE.
- ZS-1 AND ZS-2 ARE LIMIT SWITCHES FOR THE TWO POSITIONS OF THIS GATE, (ZS-1 - DRYER POSITION AND ZS-2 - TRUCK POSITION). EACH LIMIT SWITCH SHALL BE PROVIDED WITH 1 SET OF "FORM C" CONTACTS.
- LCS-180-01 IS A LOCAL CONTROL STATION FOR THE GATE, COMPLETE WITH A 2-POSITION SELECTOR SWITCH TO FLIP THE GATE TO EITHER POSITION. LAMPS TO INDICATE THE POSITION OF THE GATE AND TERMINAL BLOCKS AS NECESSARY.
- THE LCS SHALL BE PROVIDED WITH CONTROL RELAYS TO MULTIPLY THE LIMIT SWITCH CONTACTS FROM ZS-1 AND ZS-2. CONTACTS FOR EACH POSITION SHALL BE WIRED TO MARKED TERMINAL BLOCKS FOR CONNECTIONS TO PLC-160 AND PLC-180 AS SHOWN.

5 SHOP DRAWINGS FOR THE DIVERTING GATE ASSEMBLY SHALL INCLUDE THE FOLLOWING:

- DETAILED WIRING DRAWING FOR LCS-180-01 SHOWING LIMIT SWITCH CONTACT MULTIPLICATION AND TERMINATION FOR EXTERNAL CONNECTION.
- DETAILED MECHANICAL DRAWINGS SHOWING FABRICATION/ ASSEMBLY DETAILS.
- CATALOG CUTS FOR VARIOUS COMPONENTS TOGETHER WITH BILLS OF MATERIAL.

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STAMFORD WPCA

STAMFORD WATER POLLUTION CONTROL AUTHORITY

SOLIDS DRYING PROJECT

CH2MHILL

INSTRUMENTATION AND CONTROL

SCHEMATIC INTERLOCK BETWEEN SPB AND SDB

RECORD DRAWING

RE-ISSUED FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION

FOR FINAL REVIEW/ BUILDING PERMIT

NO. DATE

3 01/20/08

2 09/08/06

1 07/04/06

0 06/05/06

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DATE

JUNE 2006

PROJ

334058

DWG

I-2401

SHEET

13

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

MODIFIED DATE:

MODIFIED TIME:

FILENAME: sti2401_334058.dgn MODIFIED DATE: MODIFIED TIME:

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