JOHN Dowthitt

INSTRUMENT FUNCTION OUTLINE DEPARTMENT 246

TITLE Temperature Control #3 Mix Tank LOOP NUMBER 109 Rev 1

SHEET _____ OF _____ CLASSIFICATION _____

WRITTEN By J.E. Redstock MAY 14, 1969

1.0 Need For Loop

This loop is needed to prevent overheating of material in tank and hot enough to prevent crystallizing material

1.1 Description of Loop

1.1.1 Function

The function of this loop is to control the temperature.

1.1.2 Accuracy Required

The temperature should be controlled within ± 5°C of set point.

1.1.3 Accomplishment of Function

The temperature is sensed by a mercury filled capillary and bulb. This signal is compared with the set point and the error signal is sent to the steam control valve.

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TITLE Temperature Control #3 Mix Tank — LOOP NUMBER 109 Rev 1

SHEET ____ OF ____ — CLASSIFICATION ____

2.0 COMPONENT AND CALIBRATION DATA

OPERATING DATA

A. Temperature Controller

Location: By Handrail top of #3 Mix Tank

Air Supply: 20 PSI

Output: 3-15 PSI

Action: Increase Temperature Decrease Output

B. Control Valve

Location: By Handrail top of #3 Mix Tank

Input: 3-15 PSI

Action: Air to Open

MECHANICAL DATA

A. Temperature Controller

Type: Taylor Fulscope 86 RM

Capillary: 24 ft Flexible Extension 10 ft PVC Coated Flex.

Range: 0-150°C

B. Control Valve

Type: Mason Neilon 1" 125# Cast Iron Control Valve

Trim: 1" 316 SS

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TITLE TEMPERATURE CONTROL #3 MIX TANK LOOP NUMBER 109 REV 1

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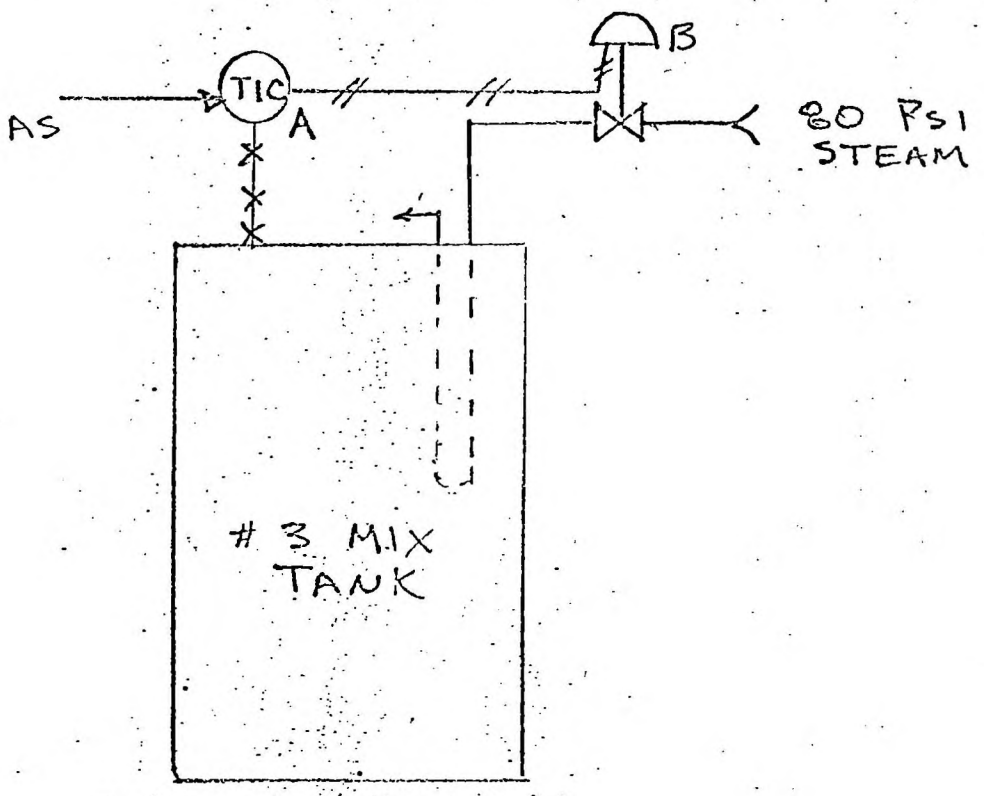

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TITLE

TEMPERATURE CONTROL
3 MIX TANK

SCALE	JOB NO.	EST. NO.
NONE	31953	NONE

DEPT. No.	IDENTITY	DRAWING NUMBER	REV.
246	160	TS-A-9586	

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INSTRUMENT FUNCTION OUTLINE — DEPARTMENT 246

TITLE Temperature Control #3 Mix Tank — LOOP NUMBER 109 Rev 1

SHEET _____ OF _____ — CLASSIFICATION _____

3.0 Operation of Loop

3.1 Normal Operations

3.1.1 Start-Up Instructions

None

3.1.2 Shutdown Instructions

None

3.1.3 Manual Operating Instructions

None

3.1.4 Routine Checks Required

None.

3.2 Interlocks

None

3.3 Abnormal Operations

3.3.1 Air Failure

Steam Valve Closes

3.3.2 Power Failure

None

3.3.3 Other

None

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