

ATTACHMENT 2

VERMONT YANKEE NUCLEAR POWER STATION

DCRDR LABEL STANDARD - Revision 0

VERMONT YANKEE
NUCLEAR POWER CORPORATION

Approved	<u>Richard D. Regdin</u> Project Manager	<u>3-14-86</u> Date
Approved	<u>Robert E. Lyle</u> NUREG 0737 Program Manager	<u>3-14-86</u> Date
Approved	<u>Abner Murphy</u> Vice President and Manager of Operations	<u>3-11-86</u> Date

8604070189 860314
PDR ADOCK 05000271
P PDR

CONTROL ROOM LABELING

GENERAL PHILOSOPHY

1. New labels will have the fewest possible changes to the existing descriptor. Any changes will be made to either insure accuracy, or state the descriptor more clearly.
2. All abbreviations and acronyms will conform to the current Vermont Yankee Nomenclature Standards. No engraver discretion is to be used in label abbreviations.
3. All necessary information, currently on Dymo tape or handwritten on the panels, will be incorporated into the label information or the zone coding, at Vermont Yankee's discretion.
4. Hierarchical labels will be added, in conjunction with demarcations, for panel clarity.
5. All label dimensions specified shall have a tolerance of $\pm .05$ ".
6. All new labels will follow human factors principles and anthropometric considerations.

CONTROL ROOM
LABELING

GENERAL SPECIFICATIONS

MATERIAL Label material shall be 1/16" thick, 2 ply lamicoid. Surface ply will be white, subsurface ply will be black. All edges will have a 45 degree bevel.

COLOR All labels will be white with black characters, unless otherwise specified.

CHARACTERS Characters shall be engraved in Block Normal style (unless otherwise specified), at 135% spacing, with the following stroke widths:

.012" for 3/32" Characters
.015" for 1/8" Characters
.020" for 1/4" Characters

Character height is measured from center of stroke width.

Typically, the distance between lines of text is 1/2 of the character height.

The number '2', in the case of O2 for oxygen or N2 for nitrogen, will be shown at a 25% reduction in size from the surrounding descriptor.

DIMENSIONS Margins will be 1/8", including the bevel, unless otherwise specified.

See typicals for specific label dimensions.

PLACEMENT Labels should be placed 1/8" from related device(s), unless otherwise specified.

ADHESIVE Affix all labels to the panel or component with 3M Urethane adhesive foam tape no. 4052.
(Exception: TYPE 7B)

CONTROL ROOM
LABEL TYPE

<u>TYPE NUMBER</u>	<u>DIMENSIONS (in inches)</u>	<u>TYPICAL APPLICATION</u>
1A	5/8 x 2-5/8	1 or 2 line descriptor
1B	3/4 x 2-5/8	3 line descriptor
1C	5/8 x 2	1 or 2 line descriptor
1D	5/8 x 3	1 or 2 line descriptor
2	3/4 x 2-5/8	2" sq. back plated devices, push buttons, key switches, CR-120 switches, Foxboro rec.
3	3/4 x 2-1/4	Uppermost key switches on back panels
4	1/2 x 1-5/8	GE-180 or Sigma linear analog ID no.
5	5/8 x 1-5/8	GE-180 or Sigma linear analog descriptor
6	3/4 x 3	GE AB-18 or controller combinations
7A	3/4 x 5-1/4	Recorders without all-glass fronts
7B	1 x 5-5/8	Recorders with all-glass fronts
8	1 x 4	Major System Identifiers
9	1/2 x (X)	Demarcation Identifiers
10	-	Information Tags
11	5/8 x (X)	Component grouping
12	5/8 x 1	Core Coordinates
13	5/8 x 2	LPRM Position
14	5/8 x 2-5/8	Breaker Designation
15A	3/4 x 2-7/8	I & C plug-in mod. ID no.
15B	3/4 x 2-7/8	I & C plug-in mod. 3 line descriptor
16	1/4 x 1/2	Set Points
17	1/2 x 5/8	AOG Instrument Locators
ANNUNCIATOR WINDOWS	1 x 3 or 3-1/4	1 or 2 line descriptor
ANNUNCIATOR HIERARCHAL	1 x variable	1 line descriptor

DESCRIPTION

TYPE 1A

- Panel Mounted
- 1 or 2 line descriptor
- 5/8" x 2 5/8"
- 15 Characters maximum per line

TYPICAL



FROM STEAM
LINE B

TYPICAL APPLICATION (Actual Size)

TYPE 1A Labels are used when a 1 or 2 line descriptor is needed. (e.g. mimic end points)

FORMAT

One line Descriptor

1/8" lettering, centered.
15 characters max.

Two line Descriptor

1/8" margins
1/8" lettering, centered
1/16" space between lines
15 characters max. per line

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 1A	
DWG BY <i>BRM</i>	DATE <i>2/11/06</i>	REV.
APPROVED BY	DATE	DWG. NO.

DESCRIPTION

TYPE 1B

Panel Mounted
2 or 3 line descriptor
3/4" x 2-5/8"
15 Characters maximum per line

RHR A/C LOGIC
LPCI/RECIRC
VALVE RESET



TYPICAL APPLICATION (Actual Size)

TYPE 1B Labels are used when a 2-5/8" label with a 2 or 3 line descriptor is needed. (e.g. certain key lock switches.)

FORMAT

Three line Descriptor

1/8" margins
1/8" lettering, centered
1/16" space between lines
15 characters max per line

Two line Descriptor

1/8" side margins only
1/8" lettering, centered
1/16" spacing between lines
15 characters max. per line

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
TYPE	TYPE 1B	
DESIGNED BY	BRM	DATE 2/11/86
APPROVED BY		DATE

DESCRIPTION

TYPE 1C

- Panel mounted
- 2 line Descriptor
- 5/8" x 2"
- 12 Characters maximum per line

ANNUNCIATOR
CRP 9-3



TYPICAL APPLICATION (Actual Size)

TYPE 1C Labels are used when a 1 or 2 line descriptor is needed. (e.g. Annunciator control label)

FORMAT

Two line Descriptor

1/8" margins
1/8" lettering, centered
1/16" space between lines
12 characters max per line

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 1C	
DWG. NO.	BRM	DATE 2/11/86
APPROVED BY		DATE

DESCRIPTION

TYPE 10

- Panel Mounted
- 2 line descriptor
- 5/8" x 3"
- 18 Characters maximum per line

SOURCE RANGE MONITOR PERIOD

TYPICAL (Actual Size)

TYPE 10 Labels are used when a 1 or 2 line descriptor is needed to replace an existing 3" label.

FORMAT

Two line Descriptor

1/8" margins
1/8" lettering, centered
1/16" space between lines
18 characters max per line

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 10	
DWG BY	BRM	DATE 2/11/86
APPROVED BY	DATE	DWG. NO.

DESCRIPTION

TYPE 2

- Panel Mounted
- Descriptor
- Component ID no.
- Group no.
- Power Supply
- 3/4" x 2 5/8"

TYPICAL APPLICATION (actual size)

TYPE 2 Labels are used in conjunction with the following components:

2" sq. back-plated handles
push buttons
key switches
CR-120 switches
Foxboro recorders

STEAM ISOLATION
HPCI-15

GRP 6

90

CLOSE

FORMAT

Line 1	
Line 2	
Line 3	Line 4

Line 1- 1/8" Descriptor, centered
15 Characters max.

Line 2- 1/8" Component ID no., centered
15 Characters max.

Line 3- 3/32" Group no.
flush to left and bottom margins

Line 4- 3/32" Power supply
flush to right and bottom margins

1/8" Margins

1/16" spacing between lines 1 and 2

PROJECT		
VERMONT YANKEE		
DESCRIPTION		
LABEL STANDARDS		
TYPE		
TYPE 2		
DWG BY	DATE	REV
BRM	2/11/86	
APPROVED BY	DATE	DATE

DESCRIPTION

TYPE 3

- Panel Mounted
- Switch Positions
- Descriptor
- 3/4" x 2 1/4"

START

STOP

SUPPLY
FAN A

TYPICAL APPLICATION (actual size)

TYPE 3 labels are used beneath the uppermost key switches on back panels.

FORMAT

Line 1	Line 2	Line 3
Line 4		
Line 5		

Line 1- 3/32", position designator,
flush to left and top margins

15 Characters max. for
lines 1, 2 & 3 combined.

Line 2- 3/32", position designator,
centered, flush to top margin.

Line 2 may be left blank
or may stand alone.

Line 3- 3/32", position designator,
flush to right and bottom margins

Line 4- 1/8" Descriptor, centered
12 Characters max per line.

Line 5- 1/8" Descriptor, centered

1/8" margins

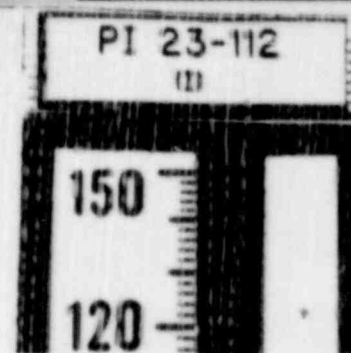
1/16" spacing between lines 4 and 5

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 3	
DWG BY	BRM	DATE 2/11/86
APPROVED BY		DATE

DESCRIPTION

TYPE 4

- Component Mounted
- Component ID no.
- Power Supply
- 1/2" x 1 5/8"



Typical Application (actual size)

TYPE 4 labels are mounted on all GE-180 and Sigma linear analog components.

FORMAT

Line 1
Line 2

Line 1- 1/8" Component ID no.,
centered, 10 char. max.

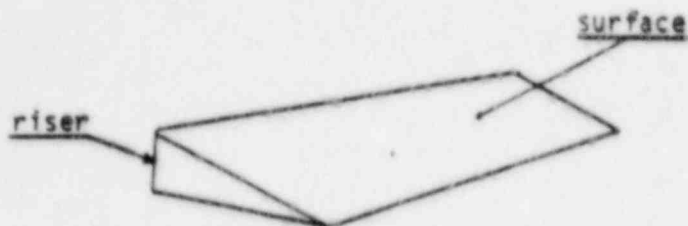
Line 2- 3/32" Power Supply
centered.

1/16" spacing between lines 1 and 2

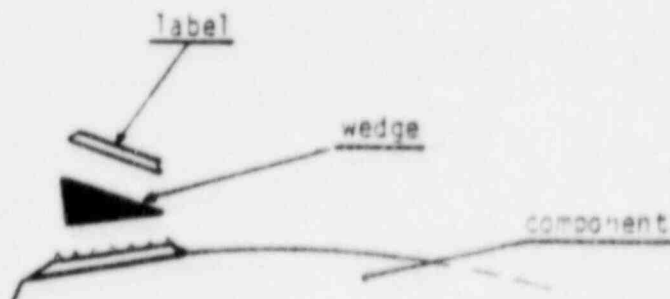
PROJECT	VERMONT YANKEE		
DESCRIPTION	LABEL STANDARDS		
CODE	TYPE 4		
DWG BY	BRM	DATE	2/12/86
APPROVED BY		DATE	

BENCH BOARD APPLICATION
TYPE 4 Labels

- Black, plexiglass wedge



- 1/4" riser.
- Surface dimensions are to match Type 4 label dimensions. (1/2" x 1 5/8")



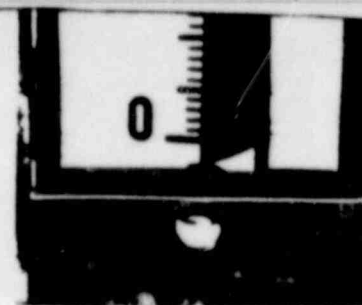
- Use double stick, foam tape to affix wedge to component and label to wedge.

VERMONT YANKEE		
LABEL STANDARDS		
TYPE 4 - BENCH BOARD APPLICATION		
Drawn by <i>CRM</i>	DATE <i>2/25/06</i>	
APPROVED BY	DATE	

DESCRIPTION

TYPE 5

- Panel mounted
- Descriptor
- 5/8" x 1 5/8"



**EXHAUST
PRESSURE**

Typical Application (actual size)

TYPE 5 labels are Descriptors
for GE-180 and Sigma linear
analog components.

FORMAT

Lines 1 and 2- 1/8" Descriptor, centered
10 Characters max. per line

This label may have one line only,
centered horizontally and vertically

1/16" spacing between lines 1 and 2

PROJECT	VERMONT YANKEE		
DESCRIPTION	LABEL STANDARDS		
CODE	TYPE 5		
DWG BY	BRM	DATE	2/12/06
APPROVED BY		DATE	

DESCRIPTION

TYPE 6

- Panel Mounted
- Descriptor
- Group No.
- Power Supply
- 3/4" x 3"

RHR HX-2B
DIFF PRESSURE
DPI 10-13081 (I)

RHR HX-2B DIFF
PRESS CONTROLLER
DPI 10-1308 (I)

Typical Application

TYPE 6 labels are used on all
GE AB-18 or Controller combinations.

Line 1	
Line 2	
Line 3	Line 4

Line 1- 1/8" Descriptor, centered

Line 2- 1/8" Descriptor, centered
18 char. max per line

Line 3- 3/32" Component ID no.,
flush to left and bottom margins

Line 4- 3/32" Power Supply,
flush to right and bottom margins

1/8" margins

1/16" spacing between lines 1 and 2

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 6	
DWG BY	BRM	DATE 2/12/06
APPROVED BY		DATE

DESCRIPTION

TYPE 7A

- Component Mount
- Descriptor
- Component ID no.
(Power Supply)
- Pen Information
- 3/4" x 5 1/4"

RHR PUMP FLOW
BLK-LOOP B/D

FR10-143(II)
RED-LOOP AC

Typical Application (actual size)

TYPE 7A labels are used on all recorders other than GE clear-front style recorders.

FORMAT

Line 1	Line 2
Line 3	Line 4

Line 1- 1/8" Descriptor, flush to left margin

Line 2- 1/8" Component ID no. (Power Supply),
flush to right margin

Line 3- 1/8" left or top Pen Information,
flush to left margin

Line 4- 1/8" right or bottom Pen Information,
flush to right margin

32 Characters max. for lines 1/2 or 3/4

1/8" Margins

3/32" spacing between lines 1/2 and 3/4

FOR 3 PEN RECORDERS, another pen descriptor may be added,
centered, between lines 3 and 4. Resulting would be a
32 character maximum for lines 3, 4 and added descriptor
combined. Line 3 is top pen information.

Added, centered descriptor is second pen information
Line 4 is now third pen information

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 7A	
DWG BY	DATE	REV.
3RM	2/12/86	
APPROVED BY	DATE	DWG.

DESCRIPTION

TYPE 7B

- Component Mount
- Descriptor
- Component ID no.
- (Power Supply)
- Pen Information
- 1" x 5 5/8"

TURBINE VIBRATION
BLK-CH. 1 OR 2

VR 23 (V)
RED-UNUSED

Typical Application (actual size)

TYPE 7B labels are used on all
GE clear-front style recorders.

FORMAT

Line 1	Line 2
Line 3	Line 4

Line 1- 1/8" Descriptor, flush to left margin

Line 2- 1/8" Component ID no. (Power Supply),
flush to right margin

Line 3- 1/8" left or top Pen Information,
flush to left margin

Line 4- 1/8" right or bottom Pen Information
flush to right margin

32 Characters max for lines 1/2 or 3/4
1/8" top and side margins(bottom of label will
be obscured when mounted)
3/32" spacing between lines 1/2 and 3/4

FOR 3 PEN RECORDERS, another pen descriptor may be added,
centered, between lines 3 and 4. Resulting would be a
32 character maximum for lines 3, 4 and added descriptor
combined. Line 3 is top pen information.
Added, centered descriptor is second pen information
Line 4 is now third pen information

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 7B	
DWG BY	BRM	DATE 2/12/86
APPROVED BY		DATE

DESCRIPTION

TYPE 8

- Panel Mounted
- 1 or 2 Line System Identifier
- 1" x 4"
- 14 Characters maximum per line

HPCI

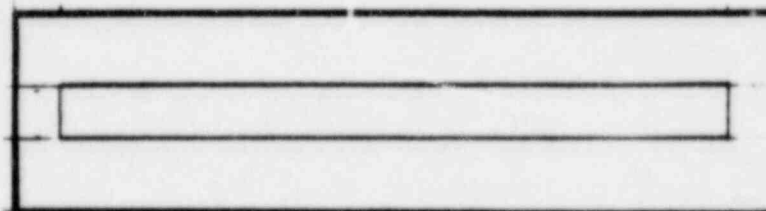
- or -

RHR LOOP B/D

Typical Application (actual size)

TYPE 8 labels are used as Major System Identifiers

FORMAT



ONE LINE DESCRIPTOR

1/4" Characters, centered
14 Characters maximum

TWO LINE DESCRIPTOR

1/4" Characters, centered
1/8" Side margins
3/16" Top and Bottom margins
1/8" spacing between lines
14 Characters max. per line

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 8	
DWG BY	BRM	DATE 2/12/86
APPROVED BY	DATE	DWG.

DESCRIPTION

TYPE 9

- Panel Mounted
- Demarcation Identifier
- 1/2" x (X)

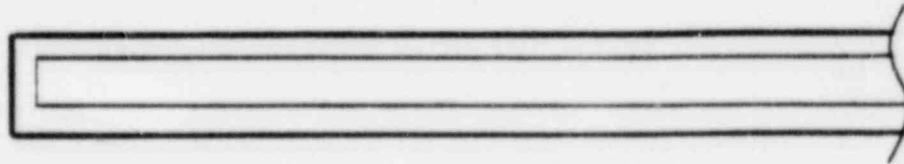
STEAM FLOW/FEED FLOW

UPS-1B

Typical Application (actual size)

TYPE 9 labels are used in conjunction with brackets or outlines

FORMAT



1/4" Descriptor
1/8" Margins

(X) is determined by the descriptor length

PROJECT			VERMONT YANKEE
DESCRIPTION			LABEL STANDARDS
CODE			TYPE 9
DWG BY	BRM	DATE	2/12/86
APPROVED BY		DATE	

DESCRIPTION

TYPE 10

- Panel Mount
- Variable Application
- No Set Dimensions

CLEAN UP TEMPS

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Typical Application (actual size)

TYPE 10 labels are used when additional information is required.
(Example shown with 3/16" and 1/8" characters)

FORMAT

Height and Width of a TYPE 10 label are determined by the amount of information required.

Character sizes available: 3/32", 1/8", 3/16" and 1/4".

Specify:

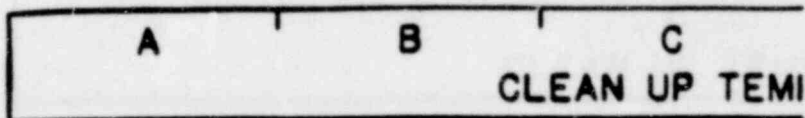
1. Exact information required.
2. Character size(s), if known.
3. Overall label dimensions, if known.

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	Type 10	
DWG BY	BLN	DATE 2/12/06
APPROVED BY	DATE	DWG.

DESCRIPTION

TYPE 11

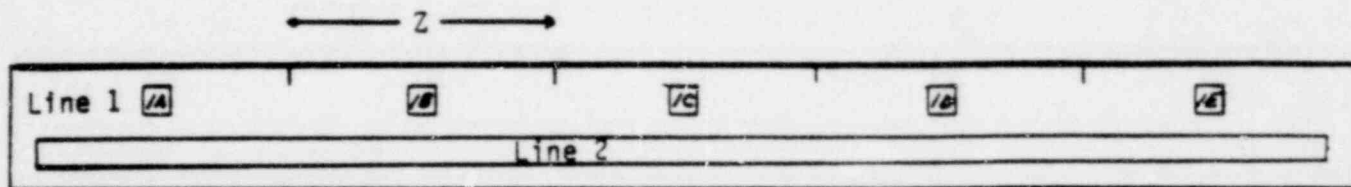
- Panel Mounted
- System Descriptor
- Component Descriptor
- 5/8" x (X)



Typical Application (Not to scale)

TYPE 11 labels are used for two or more like components, in a row, in the same system. (Selected use only)

FORMAT



Line 1- 1/8" Component Descriptor, designated 1A, 1B, 1C, etc., on component center-line

Line 2- 1/8" System Descriptor, centered on label

- 1/8" margins
- 3/32" spacing between lines 1 and 2
- Length to be determined by the number of components to be grouped times "Z".
- 3/32" vertical line, at the top of label, is to be placed at the center-line between components in grouping
- Existing TYPE 11 labels; Z=1 3/4"

PROJECT	VERMONT YANKEE		
DESCRIPTION	LABEL STANDARDS		
CODE	TYPE 11		
DWG BY <i>BRM</i>	DATE <i>2/12/86</i>	REV.	
APPROVED BY	DATE	DWG.	

DESCRIPTION

TYPE 12

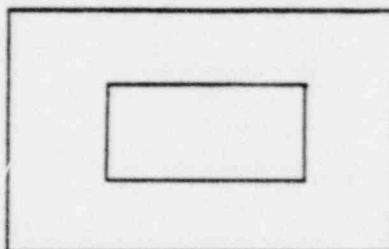
- Display
- Core co
- 5/8" x 1

01

TYPICAL APPLICATION (Actual Size)

TYPE 12 Labels are Core coordinates.

FORMAT



1/4" Numerals, centered.
3 Characters maximum.

PROJECT			VERMONT YANKEE
DESCRIPTION			LABEL STANDARDS
CODE			TYPE 12
DWG BY	BERM	DATE	2/25/86
APPROVED BY		DATE	

DESCRIPTION

TYPE 13

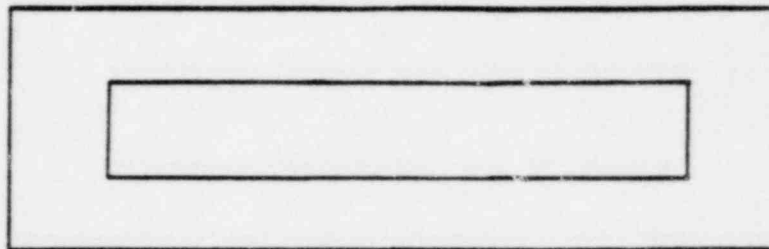
- Displayed
- LPRM Position
- 5/8" x 2"

01-10

TYPICAL APPLICATION (Actual Size)

TYPE 13 Labels are LPRM Positions.

FORMAT



1/4" Numerals, centered.
7 Characters maximum.

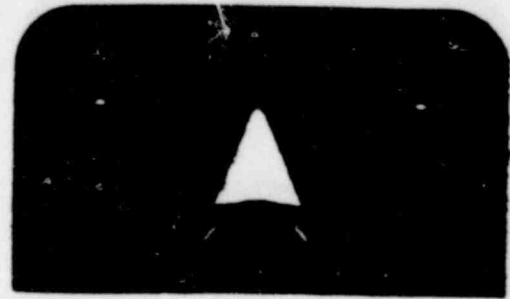
PROJECT			VERMONT YANKEE
DESCRIPTION			LABEL STANDARDS
CODE			TYPE 13
DWG BY	BRM	DATE	2/25/86
APPROVED BY		DATE	

DESCRIPTION

TYPE 14

- Panel Mount
- Breaker Designation
- 5/8" x 2 5/8"

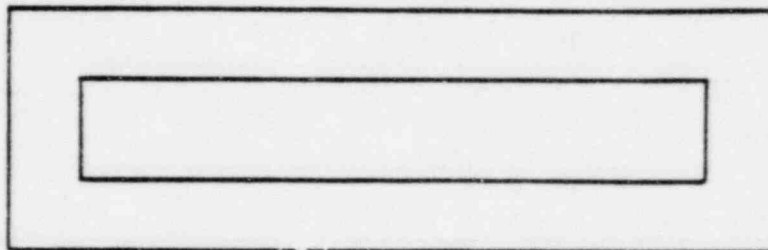
T-1



TYPICAL APPLICATION (Actual Size)

TYPE 14 Labels are Breaker Designators.

FORMAT



1/4" Characters
9 Character maximum

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 14	
DWG BY	BRM	DATE 2/25/06
APPROVED BY		DATE

DESCRIPTION

TYPE 15A

- Panel
- Description
- Group No.
- Power Supply
- 3/4" x 2 7/8"

✓
GENERAL ELECTRIC

RHR
PRESSURE

DPI 10-13081

(1)

TYPICAL APPLICATION (Actual Size)

TYPE 15A Labels are used for I & C
plug in modules when an instrument
I.D. number is needed.

FORMAT

Line 1	
Line 2	
Line 3	Line 4

Line 1- 1/8" Descriptor, centered

Line 2- 1/8" Descriptor, centered
18 char. max per line

Line 3- 3/32" Component ID no.,
flush to left and bottom margins

Line 4- 3/32" Power Supply,
flush to right and bottom margins

1/8" margins

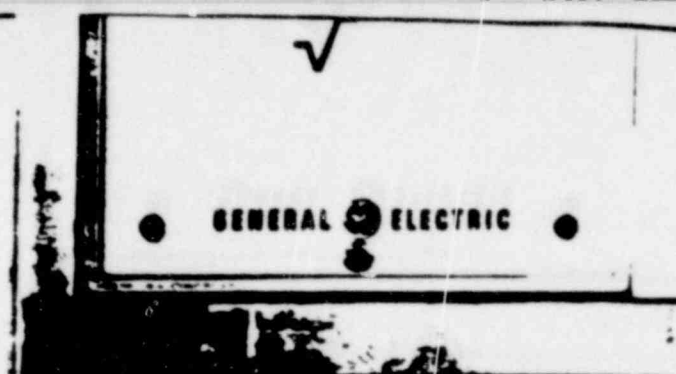
1/16" spacing between lines 1 and 2

PROJECT	VERMONT YANKEE	
DESCRIPTION	LABEL STANDARDS	
CODE	TYPE 15A	
DWG BY <i>BRM</i>	DATE <i>2/26/86</i>	REV.
APPROVED BY	DATE	DWG. NO.

DESCRIPTION

TYPE 15B

- Panel No.
- 3 line descriptor
- 3/4" x 2 7/8"



RHR
PRESSURE
INST

TYPICAL APPLICATION (Actual Size)

TYPE 15B Labels are used for I & C plug in modules when a 3 line descriptor is needed.

FORMAT

Three line Descriptor

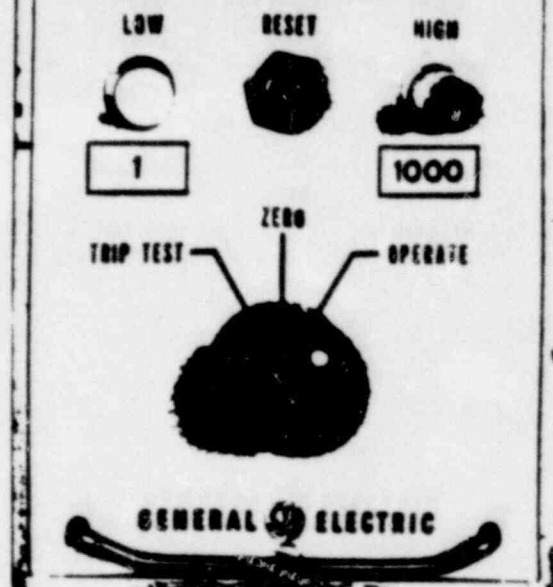
1/8" margins
1/8" lettering, centered
1/16" space between lines
18 characters max per line

PROJECT		
VERMONT YANKEE		
DESCRIPTION		
LABEL STANDARDS		
CODE		
TYPE 15B		
DWG BY	DATE	REV.
BRM	2/26/86	
APPROVED BY	DATE	DWG. NO.

DESCRIPTION

TYPE 16

- Component
- 1 line-num
- 1/4" x 1/2"

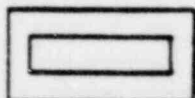


TYPICAL APPLICATION (Actual Size)

TYPE 16 Labels are Set Points.

FORMAT

3/32" Numerals, centered
4 Numerals Max.



PROJECT			VERMONT YANKEE
DESCRIPTION			LABEL STANDARDS
CODE			TYPE 16
OWG BY	DATE	REV.	
BRM	2/24/86		
APPROVED BY	DATE	DWG. NO.	

DESCRIPTOR

TYPE 17

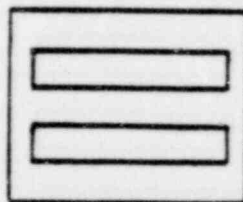
- Panel No.
- 2 Line
- 1/2" x 5"

FI
2001A

TYPICAL APPLICATION (Actual Size)

TYPE 17 Labels are AOG Instrument
locator tags.

FORMAT



Line 1-Instrument no.

Line 2-Instrument no.

3/32" Lettering

3/32" Space between lines

5 Characters max. per line.

PROJECT			VERMONT YANKEE
DESCRIPTION			LABEL STANDARDS
CODE			TYPE 17
DWG BY	ELM	DATE	2/26/86
APPROVED BY		DATE	

DESCRIPTION

ANNUNCIATOR HIERARCHAL

- One line display
- 1" x Variable length

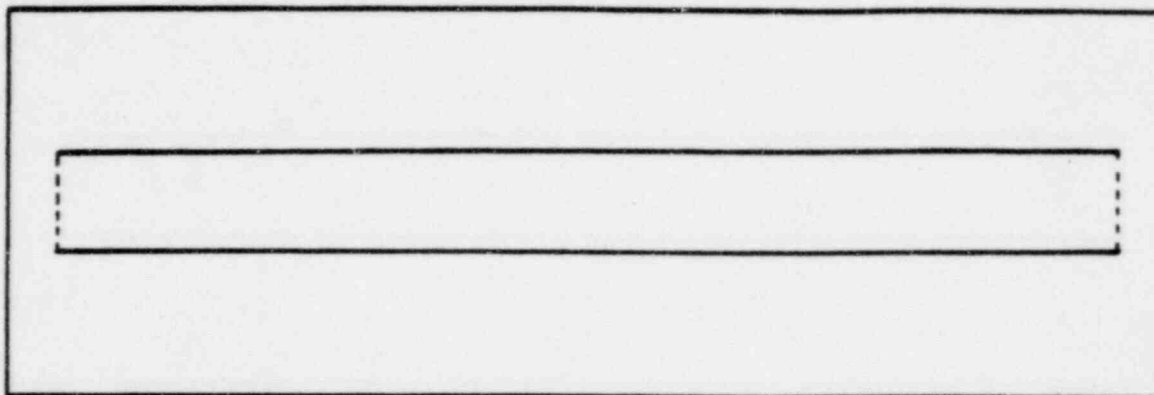
HPCI

TYPICAL

(Actual size for 1 row application)

ANNUNCIATOR HIERARCHAL Labels will be mounted on the uppermost section of the annunciator frame, centered over the appropriate vertical row of windows.

FORMAT



1" x (See table below)
1/4" BLOCK NORMAL lettering, centered.
12 Characters maximum for 1 row application

LABEL LENGTH

for 3 1/4" windows:

1 row - 3 1/4"
2 rows - 7 1/8"
3 rows - 11"
4 rows - 14 13/16"
5 rows - 18 9/16"
6 rows - 22 7/16"

for 3" windows:

1 row - 3"
2 rows - 6 7/8"
3 rows - 10 5/8"
4 rows - 14 1/2"

PROJECT	VERMONT YANKEE	
DESCRIPTION	ANNUNCIATORS	
CODE	Hierarchal Labels	
DWG BY	BRM	DATE 3/3/86
APPROVED BY		DATE

DESCRIPTION

ANNUNCIATOR WINDOW

- 1 or 2 line Annunciator
- 1" x 3" or 1 1/4"
- (Format is the same)
- 16 to 18 Characters per line.

OFF GAS RAD HI-HI
TIMR STRT

TYPICAL APPLICATION (Actual Size)

ANNUNCIATOR WINDOW ENGRAVING

FORMAT

1/4" BLOCK NORMAL Condensed Lettering
3/16" Bottom and Top Margins
1/8" Side Margins
1/8" Space between lines of text
16 - 18 Characters maximum per line
(This label may have a one line
descriptor, centered horizontally
and vertically).

PROJECT			VERMONT YANKEE
DESCRIPTION			ANNUNCIATORS
CODE			Window Engraving
DWG BY	BRM	DATE	2/26/86
APPROVED BY		DATE	

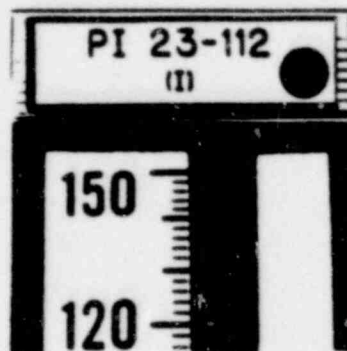
Devices included in the REG. GUIDE 1.97
Type A Variable list will be marked with a

1/4" RED Circle(Pressure sensitive)

Recommended: Chroma Dots by Prestype #CD7021-25

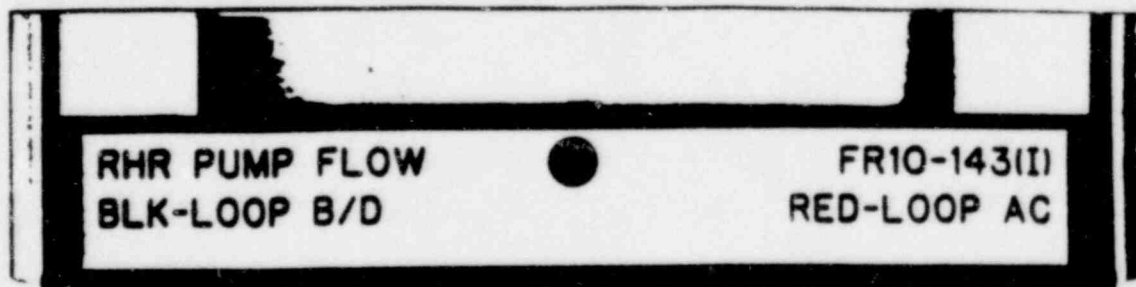
VERTICAL ANALOG INDICATORS

Label TYPE 4
Lower right hand corner



RECORDERS

Label TYPE 7A & 7B
Top center



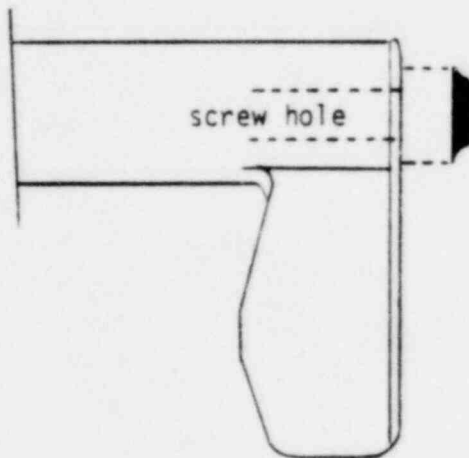
PROJECT		
VERMONT YANKEE		
DESCRIPTION		
Reg. Guide 1.97		
CODE		
Color Identification		
DWG BY	DATE	REV.
BRM	3/3/86	
APPROVED BY	DATE	SIGNATURE

THROTTLE HANDLE LABELING

- MATERIALS**
1. Black Bumpers
Round, self-adhesive
.37" dia. x .12"
Hammond Manufacturing Co., Inc.
No. 1421 T2
 2. Vinyl Lettering, self-adhesive,
1/4" White, Helvetica style
E-Z Industries, Inc.
No. 401W

- DIRECTIONS**
1. Adhere bumper to component
handle, centered over
screw hole.
 2. Adhere white letter "T",
centered on face of bumper.

1.



2.



PROJECT			VERMONT YANKEE
DESCRIPTION			LABEL STANDARDS
CODE			"Throttle" Handles
DWG BY	BRM	DATE	2/21/86
APPROVED BY		DATE	

EQUIPMENT NAME	LABEL PREFERENCE	ABBREVIATION
ACCELERATE	ACCEL	ACCEL
ACCUMULATOR	ACCUMULATOR	ACCUM
ACTUATOR	ACTUATOR	ACT
ADVANCED	ADV	ADV
ADVANCED OFF GAS	ADG	ADG
ADVANCED OFF GAS CLOSED COOLING WATER	ADGCCW	ADGCCW
AFTERCOOLER	AET CLR	AET CLR
AIR CIRCUIT BREAKER	ACB	ACB
AIR COMPRESSOR	AIR COMPR	AIR COMPR
AIR CONDITIONING	AIR CONDITIONING	A/C
AIR EJECTOR	AE	AE
AIR EJECTOR OFF GAS	AEOG	AEOG
AIR OPERATED VALVE	AOV	AOV
ALTERNATE	ALT	ALT
ALTERNATE ROD INSERTION	ARI	ARI
ALTERNATING CURRENT	AC	AC
AMPERE	AMP	AMP
ANALYZER	ANALYZER	ANAL
AND	AND	&
ANNUNCIATOR	ANNUN	ANNUN
AREA RADIATION MONITOR	ARM	ARM
ATMOSPHERIC	ATMOS	ATMOS
AUTOMATIC	AUTO	AUTO
AUTOMATIC DEPRESSURIZATION SYSTEM	ADS	ADS
AUXILIARY	ALX	AUX
AVERAGE POWER RANGE MONITOR	APRM	APRM
BACKWASH	BACKWASH	B/W
BATTERY	BATT	BAT
BEARING	BRG	BRG
BELLOWS	BELLOWS	BELLOWS
BETWEEN	BETWEEN	BETW
BLOCK	BLOCK	BLK
BOILER	BOTLER	BLR
BOILING WATER REACTOR	BWR	BLR
BREAKER	BRK	BRK
BUILDING	BLDG	BLDG
BYPASS	BYP	BYP
CABINET	CAB	CAB
CARRIER	CARRIER	CARR
CATHODE RAY TUBE	CRT	CRT
CENTRIFUGE	CENT	CENT
CHANGER OR CHANGING	CHNG	CHNG
CHANNEL	CHANNEL	CH
CHARGER OR CHARGING	CHRG	CHRG
CHECK	CHECK	CHK
CHEMICAL	CHEM	CHEM
CHLORINE	CL	CL
CIRCUIT	CIRCUIT	CKT
CIRCUIT BREAKER	CBR	CKR
CIRCULATING	CIRC	CIRC
CIRCULATING WATER	CIRC WTR	CIRC WTR
CIRCULATING WATER BOOSTER	CIRC WTR BOOSTER	CWB
CIRCUMFERENTIAL	CIRCUM	CIRCUM
CLEAN RADWASTE	CRW	CRW

EQUIPMENT NAME	LABEL PREFERENCE	ABBREVIATION
CLOSED	CLOSED	CLSD
COLLECTION OR COLLECTOR	COLL	COLL
COMBINED INTERMEDIATE VALVE	CIV	CIV
COMPARTMENT	COMPT	COMPT
COMPRESSED OR COMPRESSOR	COMPR	COMPR
COMPUTER	CMPT	CMPT
CONDENSATE OR CONDENSOR	COND	COND
CONDENSATE STORAGE TANK	CST	CST
CONDUCTIVITY	CONDUCT	CONDUCT
CONTAINMENT	CMT	CMT
CONTAINMENT ATMOSPHERIC DILUTION SYSTEM	CAD	CAD
CONTINUOUS AIR MONITOR	CAM	CAM
CONTROL	CONTROL	CTRL
CONTROL ROD DRIVE	CRD	CRD
CONTROL ROOM	CTRL RM	CTRL RM
CONTROL ROOM PANEL	CRP	CRP
CONTROL SWITCH	CTRL SW	CTRL SW
CONTROL VALVE	CTRL VLV	CV
COOLER	COOLER	CLR
COOLING	CLG	CLG
COOLING TOWER	CLG TWR	CLG TWR
CORE SPRAY	CORE SPRAY	CS
COUPLING	COUP	COUP
CURRENT	CURRENT	CURR
DECONTAMINATION	DECON	DECON
DEMINERALIZED WATER STORAGE TANK	DST	DST
DEMINERALIZER	DEMIN	DEMIN
DETECTOR	DET	DET
DIAPHRAGM	DIAPH	DIAPH
DIESEL GENERATOR	DG	DG
DIFFERENTIAL OR DIFFERENCE	DIFF	DIFF
DIFFERENTIAL PRESSURE	P	P
DIRECT CURRENT	DC	DC
DIRTY RADWASTE	DRW	DRW
DISCHARGE	DISCH	DISCH
DISCONNECT	DISC	DISC
DIVISION	DIV	DIV
DOWNCOMER	DWNCMR	DWNCMR
DOWNSCALE	DWNSCI	DWNSCI
DRAIN	DRAIN	DRN
DRIVE	DRIVE	DR
DRYWELL	DRYWELL	DWL
ECCENTRICITY	ECC	ECC
ELECTRIC OR ELECTRICAL	ELEC	ELEC
ELECTRONIC PRESSURE REGULATOR	EPR	EPR
ELEMENT	ELEM	ELEM
EMERGENCY	EMERG	EMERG
EMERGENCY CORE COOLING SYSTEM	ECCS	ECCS
EMERGENCY SAFETY SYSTEM	ESS	ESS
ENCLOSURE	ENCL	ENCL
ENGINE	ENGINE	ENG
EQUALIZER OR EQUILIZING	EQUAL	EQUAL
EQUIPMENT	EQMT	EQMT
EQUIPMENT DRAIN TANK	EQMT DRN TK	EQMT DRN TK

EQUIPMENT NAME	LABEL PREFERENCE	ABBREVIATION
EVAPORATOR	EVAP	EVAP
EXCITER	EXC	EXC
EXHAUST OR EXHAUSTER	EXH	EXH
EXPANSION	EXP	EXP
EXTRACTION	EXT	EXT
FAST	FAST	EST
FEEDER	FDR	FDR
FEEDWATER	FEEDWATER	FW
FIELD	FIELD	FLD
FILTER	FILT	FILT
FILTER DEMINERALIZER	DEMIN	DEMIN
FIRST	1ST	1ST
FLOOR	FLOOR	FLR
FLOOR DRAIN COLLECTOR TANK	FLR DRN TK	FLR DRN TK
FLOW	FLOW	FLQ
FORWARD	FWD	FWD
FOURTH	4TH	4TH
FUEL POOL	FUEL POOL	FUEL POOL
GENERATOR	GEN	GEN
GLAND	GLAND	GL
GOVERNOR	GOV	GOV
GROUND	GND	GND
GROUP	GROUP	GRP
HEAD	HEAD	HD
HEADER	HDR	HDR
HEAT	HEAT	HT
HEAT EXCHANGER	HX	HX
HEAT VENTILATION & AIR CONDITIONING	HVAC	HVAC
HEATER	HTR	HTR
HEATING	HTS	HTS
HERTZ	Hz	Hz
HIGH	HG	HT
HIGH PRESSURE	HP	HP
HIGH PRESSURE COOLANT INJECTION	HPCI	HPCI
HOOD	HOOD	HOOD
HOTWELL	HOTWELL	HOTWL
HUMIDITY	HUM	HUM
HYDRAULIC	HYD	HYD
HYDRAULIC CONTROL UNIT	HCU	HCU
HYDROGEN	H2	H2
HYDROGEN ANALYZER	H2 ANAL	H2 ANAL
INBOARD	INBD	INBD
INCOMPLETE	INCOM	INCOM
INDICATION OR INDICATOR	IND	IND
INFORMATION	INFO	INFO
INJECTION	INJ	INJ
INOPERABLE	INOP	INOP
INSTRUMENT	INST	INST
INTERCEPT VALVE	IV	IV
INTERCONNECTED	INTERCONN	INTERCONN
INTERLOCK	INTLK	INTLK
INTERMEDIATE RANGE MONITOR	IRM	IRM
INTERMEDIATE STOP VALVE	ISV	ISV
INVERTER	INVERT	INVERT

EQUIPMENT NAME	LABEL PREFERENCE	ABBREVIATION
ISOLATE OR ISOLATION	ISOL	ISOL
JET PUMP	JET PUMP	JP
KILOVAR	KVAR	KVAR
KILOVOLT	KV	KV
KILOWATT	KW	KW
LEAKAGE OR LEAKING	LKG	LKG
LEVEL	LEVEL	LVL
LINE	LINE	LN
LIQUID	LIQ	LIG
LOCAL POWER RANGE MONITOR	LPRM	LPRM
LOCKOUT	LKOUT	LKOUT
LOSS OF COOLANT ACCIDENT	LOCA	LOCA
LOW	LO	LO
LOW PRESSURE	LP	LP
LOW PRESSURE COOLANT INJECTION	LPCI	LPCI
LUBE OIL	LUBE OIL	L.O.
LUBE OIL CONDITIONER	BOWSER	BOWSER
MACHINE	MACH	MACH
MAIN STEAM ISOLATION VALVE	MSIV	MSIV
MAIN STEAM LINE	MN STM LN	MN STM LN
MAKE-UP	MAKE-UP	M/U
MAKEUP DEMINERALIZER	MUD	MUD
MAJFUNCTION	MALE	MALE
MANUAL	MAN	MAN
MANUAL PRESSURE REGULATOR	MPR	MPR
MAXIMUM	MAX	MAX
MAXIMUM CREDIBLE ACCIDENT	MCA	MCA
MECHANICAL	MECH	MECH
METEOROLOGICAL	MET	MET
MINIMUM	MIN	MIN
MOISTURE SEPARATOR	MSI SEP	MSI SEP
MONITOR	MON	MON
MOTOR	MOTOR	MTR
MOTOR CONTROL CENTER	MCC	MCC
MOTOR OPERATED DISCONNECT SWITCH	MOS	MOS
MOTOR-GENERATOR	MG	MG
NARROW RANGE	NR	NR
NEUTRAL	NEUT	NEUT
NITROGEN	N2	N2
NON-REGENERATIVE HEAT EXCHANGER	NON REGEN HX	NON REGEN HX
NORMAL	NORMAL	NORM
NORTH	NORTH	N
NORTHWEST	NW	NW
OFF GAS	OFF GAS	OG
OIL CIRCUIT BREAKER	OCB	OCB
OPEN	OPEN	OPN
OPENING JACK	OPENING JACK	OPNG JACK
OSCILLOSCOPE	OSCIL	OSCIL
OUT OF COMMISSION	OOC	OOC
OUTBOARD	OUTBD	OUTBD
OVERCURRENT	OVCURR	OVCURR
OVERLOAD (MOTOR OVERLOAD)	OVL	OVL
OVERRIDE	OVRD	OVRD
OVERSPEED	OVSPO	OVSPO

EQUIPMENT NAME	LABEL PREFERENCE	ABBREVIATION
OXYGEN	O2	O2
OXYGEN ANALYZER	O2 ANAL	O2 ANAL
PACKING	PKG	PKG
PANEL	PNL	PNL
PARTICULATE	PART	PART
PENETRATION	PEN	PEN
POINT	POINT	PT
POSITION	POS	POS
POTENTIAL TRANSFORMER	POT XEMR	POT XEMR
POWER	POWER	PWR
POWER CIRCUIT BREAKER	PCB	PCB
POWER OF HYDRONIUM ION	PH	PH
PREHEATER	PRE HTR	PRE HTR
PRESSURE	PRESS	PRESS
PRESSURE CONTROL VALVE	PCV	PCV
PRIMARY	PRI	PRI
PRIMARY CONTAINMENT	PRI CTMT	PRI CTMT
PRIMARY CONTAINMENT ISOLATION SYSTEM	PCIS	PCIS
PROCESS	PROCESS	PROC
PUMP	PUMP	PUMP
RADIATION OR RADIOACTIVE	RAD	RAD
RADIOACTIVE WASTE	RADWASTE	R/W
REACTOR	RX	RX
REACTOR BUILDING	RX BLDG	RX
REACTOR BUILDING CLOSED COOLING WATER	RBCCW	RBCCW
REACTOR BUILDING VENTILATION	RBV	RBV
REACTOR CORE ISOLATION COOLING	RCIC	RCIC
REACTOR PRESSURE VESSEL	RPU	RPU
REACTOR PROTECTION SYSTEM	RPS	RPS
REACTOR WATER CLEAN-UP SYSTEM	RWCU	RWCU
RECIRC PUMP TRIP	RPT	RPT
RECIRCULATION SYSTEM	RECIRC	RECIRC
RECOMBINER	RECOMB	RECOMB
RECORDER	RCDR	RCDR
REDUCER	REDUC	REDUC
REFUEL	REFUEL	REFUEL
REGENERATIVE	REGEN	REGEN
REGULATOR OR REGULATING	REG	REG
RELATIVE	REL	REL
RELIEF VALVE	RV	RV
RESIDUAL HEAT REMOVAL SERVICE WATER	RHRSW	RHRSW
RESIDUAL HEAT REMOVAL SYSTEM	RHR	RHR
RETURN	RETURN	RET
REVERSE	REV	REV
REVERSE CURRENT VALVE	RC ULV	RC ULV
REVOLUTIONS PER MINUTE	RPM	RPM
ROD BLOCK MONITOR	RBM	RBM
ROD POSITION INDICATION SYSTEM	RPIB	RPIB
ROD WORTH MINIMIZER	RWM	RWM
ROOM	ROOM	RM
SAFETY VALVE	SV	SV
SAMPLE	SAMPLE	SAMP
SATURATED	SAT	SAT
SCOOP	SCOOP	SCP

EQUIPMENT NAME	LABEL PREFERENCE	ABBREVIATION
SCRAM DISCHARGE VOLUME	SDV	SDV
SCREEN	SCREEN	SCRN
SEAL	SEAL	SL
SECOND	2ND	2ND
SECONDARY	SEC	SEC
SECONDARY CONTAINMENT	SEC CTMT	SEC CTMT
SECTION	SECT	SECT
SELECTOR	SEL	SEL
SEPARATOR	SEP	SEP
SEQUENCE	SEQ	SEQ
SERVICE	SERV	SERV
SERVICE WATER	SERV WTR	SERV WTR
SHUT DOWN	S/D	S/D
SIGNAL	SIGNAL	SIG
SOURCE RANGE MONITOR	SRM	SRM
SOUTH	SOUTH	S
SPEED DEMAND	SPEED DEM	SPEED DEM
SQUIB	SQUIB	SQB
STAGE	STAGE	STG
STANDBY	STORY	STDBY
STANDBY GAS TREATMENT	SRGT	SRGT
STANDBY LIQUID CONTROL	SLC	SLC
START UP	S/U	S/U
STATION	STA	STA
STEAM	STEAM	STM
STEAM JET AIR EJECTOR	SJAE	SJAE
STEAM PACKING EXHAUSTER	STM PKG EXH	STM PKG EXH
STORAGE	STOR	STOR
STRAINER	STRN	STRN
SUCTION	SUCTION	SUCT
SUPERVISOR	SUPV	SUPV
SURGE TANK	SURGE TANK	SRG TK
SWITCH	SW	SW
SWITCHGEAR	SWGR	SWGR
SYNCHROSCOPE	SYNC	SYNC
SYSTEM	SYSTEM	SYS
TANK	TANK	TK
TEMPERATURE	TEMP	TEMP
TEMPERATURE CONTROL VALVE	TCV	TCV
THIRD	3RD	3RD
THROTTLE	THROTTLE	THROT
TORUS	TORUS	TORUS
TOWER	TWR	TWR
TRANSFER	XFER	XFER
TRANSFORMER	XFR	XFR
TRANSMITTER	XMTR	XMTR
TRAVELLING	TRVL	TRVL
TRAVERSING IN-CORE PROBE	TIP	TIP
TREATMENT	TRTMT	TRTMT
TROUBLE	TROUBLE	TRBL
TUNNEL	TUNNEL	TUNT
TURBINE	TURB	TURB
TURBINE BUILDING	TURB BLDG	TP
TURBINE BUILDING CLOSED COOLING WATER	TBCCW	TBCCW

EQUIPMENT NAME	LABEL PREFERENCE	ABBREVIATION
TURBINE BYPASS VALVE	BYP VLV	BYP VLV
TURBINE STOP VALVE	TURB STOP VLV	TSV
TURBINE SUPERVISORY INSTRUMENT PANEL	TSIP	TSIP
TURBINE-GENERATOR	TURB GEN	TURB GEN
TURNING GEAR	TURN GEAR	TURN GEAR
UNINTERRUPTIBLE POWER SUPPLY	UPS	UPS
VACUUM	VAC	VAC
VALVE	VLV	VLV
VAPOR OR VAPORIZOR	VAP	VAP
VENTILATION	VENT	VEN
VESSEL	VES	VES
VIBRATION	VIBR	VIBR
VIBRATION & LOOSE PARTS MONITOR	V&LP	V&LP
VOLUME	VOLUME	VOL
WASTE COLLECTOR TANK	WCT	WCT
WASTE SAMPLE TANK	WST	WST
WATER	WATER	WTR
WIDE RANGE	WR	WR
WITHDRAW OR WITHDRAWAL	WTHDRW	WTHDRW
YARD	YARD	YD

COLOR STANDARD

VERMONT YAMKEE MIMIC COLOR/SIZE STANDARD

1) HPCI STEAM FLOWPATH - GRAVOPLY 202 (WHITE WITH RED ARROWS)	1/2" WIDE	1/4" WIDE
HPCI FLUID FLOWPATH - GRAVOPLY 259 (PINE GREEN)	1/2" WIDE	
2) CORE SPRAY FLOWPATH - GRAVOPLY 228 (QUEBEC BLUE)	1/2" WIDE	1/4" WIDE
3) RMR SYSTEM FLOWPATH - GRAVOPLY 223 (AIRFORCE BLUE)	1/2" WIDE	1/4" WIDE
4) RCIC STEAM FLOWPATH - GRAVOPLY 202 (WHITE WITH RED ARROWS)	1/2" WIDE	
RCIC FLUID FLOWPATH - GRAVOPLY 259 (PINE GREEN)	1/2" WIDE	1/4" WIDE
5) RWCU SYSTEM FLOWPATH - GRAVOPLY 269 (SILVER GREY)	1/2" WIDE	1/4" WIDE
6) RECIRCULATION SYSTEM - GRAVOPLY 205 (IVORY)	1/2" WIDE	1/4" WIDE
7) CONDENSATE & FEEDWATER - GRAVOPLY 231 (PURPLE)	1/2" WIDE	1/4" WIDE
8) 345 KV ELECTRICAL - GRAVOPLY 241 (CHOCOLATE BROWN)	1/2" WIDE	
9) 115 KV ELECTRICAL - GRAVOPLY 240 (BROWN)	1/2" WIDE	
10) 22 KV ELECTRICAL - GRAVOPLY 242 (RUST)	3/8" WIDE	
11) 4160 VAC ELECTRICAL - GRAVOPLY 243 (COCOA BROWN)	1/4" WIDE	
12) 480 VAC ELECTRICAL - GRAVOPLY 284 (ALMOND)	1/4" WIDE	1/8" WIDE
13) AOG GAS FLOWPATH - GRAVOPLY 225 (MET. BLUE)	1/4" WIDE	1/8" WIDE
AOG FLUID FLOWPATH - GRAVOPLY 259 (PINE GREEN)	1/8" WIDE	
14) SJAE STEAM FLOWPATH - GRAVOPLY 202 (WHITE WITH RED ARROWS)	1/8" WIDE	
SJAE GAS FLOWPATH - GRAVOPLY 225 (MET. BLUE)	1/8" WIDE	
15) CONTAINMENT PURGEPVENT - GRAVOPLY 225 (MET. BLUE)	1/4" WIDE	1/8" WIDE
16) CRP 9-3, ISOLATION MIMIC:		
TIP FLOWPATH - GRAVOPLY 210 (BLACK WITH WHITE ARROWS)	1/8" WIDE	
STEAM LINE DRAINS - GRAVOPLY 259 (PINE GREEN)	1/8" WIDE	
DRYWELL FL/EGMT DRNS - GRAVOPLY 210 (BLACK WITH WHITE ARROWS)	1/8" WIDE	
ALL OTHER - TO MATCH MIMIC ON MAIN CONTROL PANELS	1/4" WIDE	
17) ALTERNATE SHUTDOWN PANELS:		
ALL MIMIC TO MATCH MIMIC ON MAIN CONTROL PANELS	1/4" WIDE	

NOTE: WHERE TWO SIZES ARE PROVIDED, THE LARGER SIZE APPLIES TO THE MAJOR FLOW PATH WHILE THE SMALLER SIZE APPLIES TO MINOR FLOWPATHS, BYPASS LINES, ETC. ALL MIMIC SHALL HAVE ARROWS ENGRAVED TO SHOW THE DIRECTION OF FLOW.

VERMONT YANKEE
SWITCH HANDLE COLOR AND LOCATION INDEX

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 27880 (WHITE)

1)	CRP 9-3	HPCI STEAM SUPPLY VALVE	V-23-14	23A-S1
2)	CRP 9-3	HPCI STEAM ISOL VALVE	V-23-15	23A-S2
3)	CRP 9-3	HPCI STEAM ISOL VALVE	V-23-16	23A-S3
4)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-80A	16A-S1A
5)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-80B	16A-S1B
6)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-80C	16A-S1C
7)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-80D	16A-S1D
8)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-86A	16A-S2A
9)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-86B	16A-S2B
10)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-86C	16A-S2C
11)	CRP 9-3	MAIN STEAM ISOL VALVE	V-2-86D	16A-S2D
12)	CRP 9-4	RCIC STEAM SUPPLY VALVE	V-13-131	13A-S2
13)	CRP 9-4	RCIC STEAM ISOL VALVE	V-13-15	13A-S1
14)	CRP 9-4	RCIC STEAM ISOL VALVE	V-13-16	13A-S3
15)	CRP 9-7	STEAM SEAL REG FEED VALVE		SW-19
16)	CRP 9-7	STEAM SEAL REG BYPS VALVE		SW-20
17)	CRP 9-7	STEAM SEAL REG UNLOAD VALVE		SW-21

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STANDARD 595-A 34108 (GREEN)

1)	CRP 9-3	HPCI PUMP SUCTION VALVE	V-23-58	23A-S14
2)	CRP 9-3	HPCI PUMP SUCTION VALVE	V-23-57	23A-S13
3)	CRP 9-3	HPCI PUMP SUCTION VALVE	V-23-17	23A-S4
4)	CRP 9-3	HPCI MIN FLOW BYPASS	V-23-25	23A-S10
5)	CRP 9-3	HPCI PUMP DISCH VALVE	V-23-20	23A-S7
6)	CRP 9-3	HPCI TEST BYPASS VALVE	V-23-21	23A-S8
7)	CRP 9-3	HPCI REDUNDANT SHUTOFF	V-23-24	23A-S9
8)	CRP 9-3	HPCI PUMP DISCHARGE VALVE	V-23-19	23A-S6
9)	CRP 9-3	STEAM LINE DRAIN VALVE	V-2-74	2E-S1A
10)	CRP 9-3	STEAM LINE DRAIN VALVE	V-2-77	2E-S1B
11)	CRP 9-3	STEAM LINE DRAIN VALVE	V-2-78	2E-S1C
12)	CRP 9-3	STEAM LINE DRAIN VALVE	V-2-79	2E-S1D
13)	CRP 9-4	RCIC PUMP SUCTION VALVE	V-13-18	13A-S4
14)	CRP 9-4	RCIC PUMP SUCTION VALVE	V-13-39	13A-S9
15)	CRP 9-4	RCIC PUMP SUCTION VALVE	V-13-41	13A-S10
16)	CRP 9-4	RCIC MIN FLOW BYP VALVE	V-13-27	13A-S21
17)	CRP 9-4	RCIC CLG WATER VALVE	V-13-132	13A-S8
18)	CRP 9-4	RCIC PUMP DISCHARGE VALVE	V-13-20	13A-S6
19)	CRP 9-4	RCIC TEST BYPASS VALVE	V-13-30	13A-S7
20)	CRP 9-4	RCIC PUMP DISCHARGE VALVE	V-13-21	13A-S5

THE FOLLOWING SWITCH HANDLES WILL BE PAINTED A SHADE OF BLUE THAT MATCHES, AS NEARLY AS POSSIBLE, GRAVOPLY 228 QUEBEC BLUE.

1)	CRP 9-3	CS PUMP BYPASS VALVE	V-14-58	14A-S3B
2)	CRP 9-3	CS TEST VALVE	V-14-26B	14A-S4B
3)	CRP 9-3	CS DISCHARGE VALVE	V-14-11B	14A-S2B
4)	CRP 9-3	CS DISCHARGE VALVE	V-14-12B	14A-S1B
5)	CRP 9-3	CS PUMP BYPASS VALVE	V-14-5A	14A-S3A
6)	CRP 9-3	CS TEST VALVE	V-14-26A	14A-S4A
7)	CRP 9-3	CS DISCHARGE VALVE	V-14-11A	14A-S2A
8)	CRP 9-3	CS DISCHARGE VALVE	V-14-12A	14A-S1A

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 26373 (BLUE)

1)	CRP 9-3	RHR PUMP BD MIN FLOW VLV	V-10-16B	10A-S28B
2)	CRP 9-3	RHR RECIRC LOOP INBD ISOL VLV	V-10-25B	10A-S8B
3)	CRP 9-3	RHR PUMP SUCTION VALVE	V-10-15D	10A-S6D
4)	CRP 9-3	RHR PUMP SUCTION VALVE	V-10-15B	10A-S6B
5)	CRP 9-3	RHR DRYWELL SPRAY B ISOL VLV	V-10-31B	10A-S11B
6)	CRP 9-3	RHR CONT TEST VALVE	V-10-34B	10A-S12B
7)	CRP 9-3	RHR RECIRC LOOP OUTBD ISOL	V-10-27B	10A-S10B
8)	CRP 9-3	RHR HEAD SPRAY ISOL VALVE	V-10-32	16A-S11
9)	CRP 9-3	RHR DRYWELL SPRAY B ISOL VLV	V-10-26B	10A-S9B
10)	CRP 9-3	RHR SPRAY T DISCHARGE VALVE	V-10-38B	10A-S13B
11)	CRP 9-3	RHR SPRAY T DISCHARGE VALVE	V-10-39B	10A-S14B
12)	CRP 9-3	RHR HX BYPASS VALVE	V-10-65B	10A-S16B
13)	CRP 9-3	RHR HEAD SPRAY ISOL VALVE	V-10-33	16A-S12
14)	CRP 9-3	RHR ISOLATION VALVE	V-10-17	16A-S10
15)	CRP 9-3	RHR ISOLATION VALVE	V-10-18	16A-S9
16)	CRP 9-3	RHR RECIRC LOOP INBD ISOL VLV	V-10-25A	10A-S8A
17)	CRP 9-3	RHR PUMP SUCTION VALVE	V-10-15A	10A-S6A
18)	CRP 9-3	RHR PUMP SUCTION VALVE	V-10-15C	10A-S6C
19)	CRP 9-3	RHR RECIRC LOOP OTBD ISOL VLV	V-10-27A	10A-S10A
20)	CRP 9-3	RHR CONT TEST VALVE	V-10-34A	10A-S12A
21)	CRP 9-3	RHR DRYWELL SPRAY A ISOL VLV	V-10-31A	10A-S11A
22)	CRP 9-3	RHR PUMP AC MIN FLOW VALVE	V-10-16A	10A-S28A
23)	CRP 9-3	RHR HX BYPASS VALVE	V-10-65A	10A-S16A
24)	CRP 9-3	RHR CORE SPRAY TEST DISCH VLV	V-10-39A	10A-S14A
25)	CRP 9-3	RHR SPRAY TEST DISCH VLV	V-10-38A	10A-S13A
26)	CRP 9-3	RHR DRYWELL SPRAY A ISOL VLV	V-10-26A	10A-S9A
27)	CRP 9-3	RHR TO RADWASTE VALVE	V-10-57	16A-S14
28)	CRP 9-3	RHR TO RADWASTE VALVE	V-10-66	16A-S13

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 26373 (GREY)

1)	CRP 9-4	RWCU RX OUTLET VALVE	V-12-15	16A-S15
2)	CRP 9-4	RWCU INLET VALVE	V-12-18	16A-S16
3)	CRP 9-4	RWCU DRN TO MAIN CONDESER VLV	V-12-56	12A-S2
4)	CRP 9-4	RWCU DRN TO RADWASTE VLV	V-12-57	12A-S3
5)	CRP 9-4	RWCU CLEANUP RX RETURN VLV	V-12-68	16A-S17
6)	CRP 9-4	RWCU CLEANUP BYPASS VLV	V-12-74	12A-S4
7)	CRP 9-5	RWCU DRN ORIFICE ISOL VALVE	V-12-53	12A-S1

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 33690 (IVORY)

1)	CRP 9-4	RECIRC SAMPLE LINE ISOL VLV	V-2-39	16A-S7
2)	CRP 9-4	RECIRC SAMPLE LINE ISOL VLV	V-2-40	16A-S8

THE FOLLOWING SWITCH HANDLES WILL BE PAINTED A SHADE OF PURPLE THAT MATCHES AS NEARLY AS POSSIBLE, GRAVOPLY 231.

1)	CRP 9-6	COND A HOTWELL OUTLET	SW-42
2)	CRP 9-6	COND A HOTWELL OUTLET	SW-43
3)	CRP 9-6	COND B HOTWELL OUTLET	SW-44
4)	CRP 9-6	COND B HOTWELL OUTLET	SW-45
5)	CRP 9-6	LP HTR TRAIN A INLET	SW-46
6)	CRP 9-6	LP HTR TRAIN A OUTLET	SW-48
7)	CRP 9-6	LP HTR TRAIN B INLET	SW-47
8)	CRP 9-6	LP HTR TRAIN B OUTLET	SW-49
9)	CRP 9-6	LP HTR TRAIN BYPASS	SW-50
10)	CRP 9-6	RE PUMP A DISCHARGE	SW-56
11)	CRP 9-6	RE PUMP B DISCHARGE	SW-57
12)	CRP 9-6	RE PUMP C DISCHARGE	SW-58
13)	CRP 9-6	FW REG VLV A INLET	SW-13
14)	CRP 9-6	FW AUX REG VLV INLET	SW-14
15)	CRP 9-6	FW REG VLV B INLET	SW-15
16)	CRP 9-6	HP HTR TRAIN A INLET	SW-51
17)	CRP 9-6	HP HTR TRAIN B INLET	SW-52
18)	CRP 9-6	HP HTR TRAIN A OUTLET	SW-53

19)	CRP 9-6	HP HIR TRAIN B OUTLET		SW-54
20)	CRP 9-6	HP HIR TRAIN BYPASS		SW-55
21)	CRP 9-6	FW RECIRC VLV	V-63-22A	SW-82
22)	CRP 9-6	FW RECIRC VLV	V-63-22B	SW-83

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 20062 (DARK BROWN)

1)	CRP 9-7	BREAKER 1T		SW-28
2)	CRP 9-7	BREAKER 81-1T		SW-29
3)	CRP 9-7	DISCONNECT T-1		SW-30
4)	CRP 9-8	DISCONNECT 340-3		SW-120
5)	CRP 9-8	BREAKER 79-40		SW-121
6)	CRP 9-8	BREAKER 379		SW-32
7)	CRP 9-8	BREAKER 381		SW-33
8)	CRP 9-8	DISCONNECT 379-3		SW-37
9)	CRP 9-8	DISCONNECT 381-3		SW-38
10)	CRP 9-8	DISCONNECT T-4		SW-40

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 30108 (BROWN)

1)	CRP 9-8	BREAKER K-1		SW-34
2)	CRP 9-8	BREAKER K-40		SW-35
3)	CRP 9-8	BREAKER K-186		SW-36
4)	CRP 9-8	DISCONNECT T-3		SW-39

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 30450 (COCOA BROWN)

1)	CRP 9-8	ACB-3V4		SW-22
2)	CRP 9-8	ACB-3V		SW-7
3)	CRP 9-8	ACB-4V		SW-8
4)	CRP 9-8	GENERATOR BREAKER		SW-9
5)	CRP 9-8	GENERATOR BREAKER		SW-10
6)	CRP 9-8	BKR NO. 38		SW-13
7)	CRP 9-8	BKR NO. 49		SW-14
8)	CRP 9-8	BKR NO. 3T1		SW-1
9)	CRP 9-8	BKR NO. 4T2		SW-6
10)	CRP 9-8	BKR NO. 53		SW-23
11)	CRP 9-8	BKR NO. 13		SW-2
12)	CRP 9-8	BKR NO. 23		SW-3
13)	CRP 9-8	BKR NO. 210		SW-94
14)	CRP 9-8	BKR NO. 16		SW-11
15)	CRP 9-8	BKR NO. 27		SW-12
16)	CRP 9-8	BKR NO. 12		SW-4
17)	CRP 9-8	BKR NO. 22		SW-5
18)	CRP 9-8	BKR NO. 111		SW-112

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 27769 (ALMOND)

1)	CRP 9-8	BKR NO. 88		SW-17
2)	CRP 9-8	BKR NO. 99		SW-18
3)	CRP 9-8	BKR NO. 8T9		SW-20
4)	CRP 9-8	BKR NO. 9T8		SW-21
5)	CRP 9-8	BKR NO. 1010		SW-95
6)	CRP 9-8	BKR NO. 66		SW-15
7)	CRP 9-8	BKR NO. 77		SW-16
8)	CRP 9-8	BKR NO. 6T7		SW-19
9)	CRP 9-8	BKR NO. 1111		SW-113

THE FOLLOWING SWITCH HANDLES WILL BE FEDERAL STD. 595-A 23655 (YELLOW)

1)	CRP 9-3	RHRWS PUMP A	P-8-1A	10A-S20A
2)	CRP 9-3	RHRWS PUMP B	P-8-1B	10A-S20B
3)	CRP 9-3	RHRWS PUMP C	P-8-1C	10A-S20C

4)	CRP 9-3	RHR SW PUMP D	P-8-10	10A-S20B
5)	CRP 9-3	RHR PUMP A	P-10-1A	10A-S2A
6)	CRP 9-3	RHR PUMP B	P-10-1B	10A-S2B
7)	CRP 9-3	RHR PUMP C	P-10-1C	10A-S2C
8)	CRP 9-3	RHR PUMP D	P-10-1D	10A-S2D
9)	CRP 9-3	CORE SPRAY PUMP A	P-46-1A	14A-S5A
10)	CRP 9-3	CORE SPRAY PUMP B	P-46-1B	14A-S5B
11)	CRP 9-3	HPCI AUX OIL PUMP		23A-S17
12)	CRP 9-3	HPCI GL SL COND TANK PUMP		23A-S19
13)	CRP 9-3	HPCI GL SL VAC PUMP		23A-S18
14)	CRP 9-4	RECIRC LUBE OIL PUMP	P-77-1A	2A-S5A
15)	CRP 9-4	RECIRC LUBE OIL PUMP	P-77-1B	2A-S4A
16)	CRP 9-4	RECIRC LUBE OIL PUMP	P-77-1C	2A-S12A
17)	CRP 9-4	RECIRC LUBE OIL PUMP	P-77-1D	2A-S3B
18)	CRP 9-4	RECIRC LUBE OIL PUMP	P-77-1E	2A-S4B
19)	CRP 9-4	RECIRC LUBE OIL PUMP	P-77-1F	2A-12B
20)	CRP 9-4	RECIRC GEN DRIVE MOTOR A CONTROL		2A-S1A
21)	CRP 9-4	RECIRC GEN DRIVE MOTOR B CONTROL		2A-S1B
22)	CRP 9-4	RWCU PUMP A	P-49-1A	12A-S5
23)	CRP 9-4	RWCU PUMP B	P-49-1B	12A-S6
24)	CRP 9-4	DRYWELL FLOOR DRAIN PUMP	P-11-1A	20A-S1A
25)	CRP 9-4	DRYWELL EQUIP DRAIN PUMP	P-15-1A	20A-S2A
26)	CRP 9-4	DECON SUMP PUMP	P-37-1A	20A-S3A
27)	CRP 9-4	DRYWELL FLOOR DRAIN PUMP	P-11-1B	20A-S1B
25)	CRP 9-4	DRYWELL EQUIP DRAIN PUMP	P-15-1B	20A-S2B
26)	CRP 9-4	DECON SUMP PUMP	P-37-1B	20A-S3B
27)	CRP 9-4	RCIC GL SL TK COND PUMP		13A-S14
28)	CRP 9-4	RCIC GL SL VAC PUMP		13A-S15
29)	CRP 9-5	CRD PUMP A	P-38-1A	3B-S4A
30)	CRP 9-5	CRD PUMP B	P-38-1B	3B-S4B
31)	CRP 9-6	CONDENSATE PUMP A		SW-6
32)	CRP 9-6	CONDENSATE PUMP B		SW-7
33)	CRP 9-6	CONDENSATE PUMP C		SW-8
34)	CRP 9-6	FEEDWATER PUMP A		SW-9
35)	CRP 9-6	FEEDWATER PUMP B		SW-10
36)	CRP 9-6	FEEDWATER PUMP C		SW-11
37)	CRP 9-6	SERVICE WATER PUMP A		SW-1
38)	CRP 9-6	SERVICE WATER PUMP B		SW-2
39)	CRP 9-6	SERVICE WATER PUMP C		SW-3
40)	CRP 9-6	SERVICE WATER PUMP D		SW-4
41)	CRP 9-6	CIRC WATER PUMP A		SW-32
42)	CRP 9-6	CIRC WATER PUMP B		SW-33
43)	CRP 9-6	CIRC WATER PUMP C		SW-34
44)	CRP 9-6	CIRC WATER BOOSTER PUMP A		SW-29
45)	CRP 9-6	CIRC WATER BOOSTER PUMP B		SW-30
46)	CRP 9-6	CIRC WATER BOOSTER PUMP C		SW-31
47)	CRP 9-6	DEMIN WATER TRANSFER PUMP A		SW-40
48)	CRP 9-6	DEMIN WATER TRANSFER PUMP B		SW-41
49)	CRP 9-6	COND VACUUM PUMP		SW-16
50)	CRP 9-6	COND TRANSFER PUMP A		SW-17
51)	CRP 9-6	COND TRANSFER PUMP B		SW-18
52)	CRP 9-6	HEATER DRAIN PUMP A		SW-23
53)	CRP 9-6	HEATER DRAIN PUMP B		SW-24
54)	CRP 9-6	TB COOLING WTR PUMP A		SW-12A
55)	CRP 9-6	TB COOLING WTR PUMP B		SW-12B
56)	CRP 9-6	RX BLDG CLG WTR PUMP A		SW-19
57)	CRP 9-6	RX BLDG CLG WTR PUMP B		SW-20
58)	CRP 9-7	STATOR COOLING PUMP SELECT		SW-35
59)	CRP 9-7	AUX OIL PUMP		SW-22
60)	CRP 9-7	LIFT PUMP MOTOR NO 1		SW-23
61)	CRP 9-7	LIFT PUMP MOTOR NO 2		SW-24
62)	CRP 9-7	LIFT PUMP MOTOR NO 3		SW-25
63)	CRP 9-23	EMERG BEARING OIL PUMP	P-74-1A	SW-2

64) CRP 9-23 TURN GEAR OIL PUMP
65) CRP 9-23 EMERG SEAL OIL PUMP
66) CRP 9-23 MAIN SEAL OIL PUMP
67) CRP 9-23 SEAL OIL VAC PUMP

P-73-1A	SW-3
P-51-1A	SW-8
P-39-1A	SW-20
P-68-1A	SW-21

ALL OTHER SWITCHES THAT ARE CURRENTLY COLORED SHOULD BE BLACK (UNPAINTED)

DEMARCATIION STANDARD

ZONE CODING GUIDELINES

1. Vertical and horizontal linear analog recorder and indicator coding:

COLOR GREEN (Prestape no. T1712)
AMBER (Prestape no. T1312)
RED (Prestape no. T1012)

DIMENSIONS Based on a viewing distance of 28 inches.
Minimum Width .125"
Minimum Length .25"

MATERIAL 1/8", pressure sensitive, transparent
graphic tape.
Prestape by Prestype, Inc. recommended

2. Curvilinear analog indicator coding:

COLOR GREEN (Zipatone no. 2658)
AMBER (Zipatone no. 2734)
RED (Zipatone no. 2545)

DIMENSIONS Based on a viewing distance of 28 inches,
color band is to follow the same arc as
the gradations on the indicator being coded.
Minimum Width .125"
Minimum Length .25 " at center line
of width

MATERIAL Pressure sensitive, transparent, color film.
Cut film to match the desired width, length
and arc of coding strip.
Zip-a-tone by Zipatone, Inc. recommended.

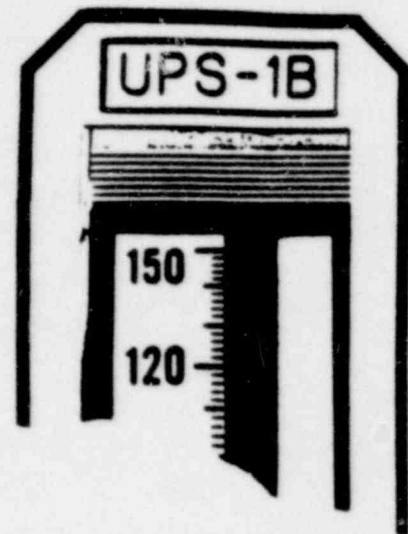
References: Human Factors Design Handbook- Woodson
McGraw-Hill, 1981
NUREG 0700
MILSTD 1472 C
OFC NAVAL RESEARCH AD 693237

PROJECT		
VERMONT YANKEE		
DESCRIPTION		
ZONE CODING		
CODE		
Implementation Guidelines		
DWG BY	DATE	FILE
APPROVED BY	DATE	SIGNATURE

OUTLINES

1/16" Black (painted), with 45 degree, 3/8" corners.

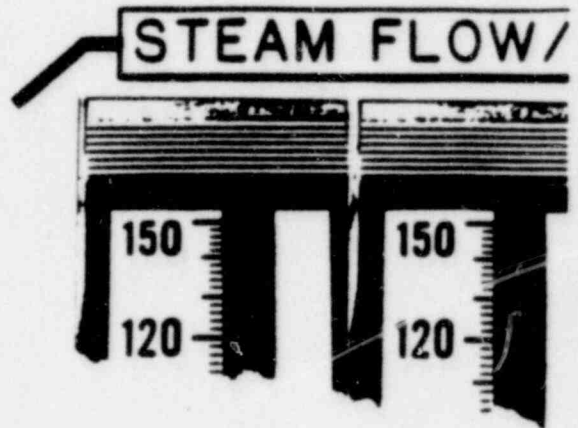
- Notes:
1. Corners shall be no less than 1/8" from components or labels.
 2. Outline shall be no less than 1/8" from components or labels.
 3. Labels, for use with outlines, shall be TYPE 9, unless otherwise specified.
 4. Mount TYPE 9 label 1/8" above topmost component in grouping.
 5. Place outline 1/8" above TYPE 9 label.



BRACKETS

1/16" Black (painted), with a 45 degree, 5/8" chamfer.

- Notes:
1. Chamfers must stay a minimum of 1/4" away from components or other demarcations.
 2. Labels, for use with brackets, shall be TYPE 9, unless otherwise specified.
 3. Horizontally mount labels directly onto center of bracket.
 4. Labels are to be mounted 1/8" from topmost component in grouping.
 5. Horizontal line of bracket should end parallel to the outermost component in grouping.



DIVISION LINES

1/16" Black (painted).

- Notes:
1. Center division line between components to be separated.
 2. Extend line no less than 1/2" above topmost label or component, and below bottom-most component.

PROJECT	VERMONT YANKEE	
DESCRIPTION	ENHANCEMENT GUIDELINES	
SCOPE	Brackets, outlines, division line	
DWG BY	BRM	DATE 2/19/86
APPROVED BY		DATE

HPCI		3-N-1
HPCI STM LN ΔP HI		Proc. No. <u>O.P. 3140</u> Rev. _____ Dept. Supv. _____ Pl. Mgr. _____ PORC _____ MOO. _____ Issue Date _____
Causes: 1. HPCI STEAM BREAK	Setpoints: 180" WATER	Actuating Devices: DPIS-23-77
		References: CWD-1454
Confirmation: CHROMALOX CARD FILE #1, POINTS 17, 18, 19, 20.		
Automatic Actions: 1. HPCI ISOLATION.		
Operator Actions: 1. VERIFY HPCI TRIPPED AND HPCI-15, 16, 25, 87 & 88 SHUT. 2. PREVENT AUTO-RESTART BY PLACING AUX. OIL PP CONTROL SWITCH IN FULL-TO-LOCK. 3. OPEN SGT 1A/B. 3 NOTIFY HEALTH PHYSICS FOR RAD ASSESSMENT. 4. NOTIFY HIGHER MANAGEMENT AND CONSULT TECHSPECS		

ATTACHMENT 4

CONTROL OF OPERATOR AIDS AND TEMPORARY LABELS

PURPOSE

To initiate and maintain a system to control placement and maintenance of operator aids and temporary labels on Operations Department control panels in the plant.

DISCUSSION

Operator aids are: sketches, notes, pictures, portions of plant procedures or plant drawings, tables and appendices from appropriate literature that are related to the process controlled by the panel on or near where they are posted. They shall not be used in lieu of component labeling, in place of tagging procedures or to bypass required review and approval mechanisms of information they represent.

Temporary labels are any labels affixed to the panels by operators via dymotape, or other suitable methods to improve operator understanding and efficiency, to label newly installed equipment, or to correct existing label information. Temporary labels may be used until permanent labels are available or until the temporary label is no longer necessary. Temporary labels must be kept to a minimum and should be used only if necessary and only until a permanent label can be obtained.

REFERENCES

- A. Tech Specs
 - 1. None
- B. Admin Limits
 - 1. None
- C. Other
 - 1. NUREG 0700, Guidelines for Control Room Design Reviews

PREREQUISITES

- 1. None

PROCEDURES

- 1. Control of Operator Aids
 - A. Authorization for Installation of Operator Aids
 - 1. Present the aid to a Shift Supervisor
 - 2. The Shift Supervisor will review it for the following:

- A. Proposed location does not interfere with existing controls or identifications
 - B. Appropriate for intended use
 - C. Legibility
 - D. Validity
3. The Shift Supervisor signifies his authorization by initialing and dating the aid.
 4. Present the aid to the Operations Department Supervisor for his concurring signature. When he initials the aid, he signifies his concurrence. The aid may then be posted as per Operator Aid Posting below.

B. Operator Aid Posting

1. Upon obtaining authorization, the originator writes a brief description and the reason for posting the aid in the Operator Aid/Temporary Label Status Book maintained in the Control Room.
2. After the description, identify where it is to be posted, then initial and date the entry.
3. Post the aid and notify the Shift Supervisor.
4. The Shift Supervisor then observes the posting and initials the description in the Operator Aid/Temporary Label Status Book.

C. Removal of Operator Aids

1. Present the proposal to the Shift Supervisor.
2. If he concurs, the Shift Supervisor authorizes removal of the aid.
3. Remove the aid.
4. Draw a line through the written description of the aid in the Operator Aid/Temporary Label Status Book and notify the Shift Supervisor.
5. The Shift Supervisor initials and dates the lined out description.

2. Control of Temporary Labels

A. Authorization for installation of temporary labels.

1. Present the label to a Shift Supervisor.
2. The Shift Supervisor will review it for the following:

- a. Proposed location does not interfere with existing controls or identifications (unless the label is an old label to be replaced).
- b. Appropriate for intended use.
- c. Legibility.
- d. Validity.

3. The Shift Supervisor gives verbal authorization for the installation.

B. Application of Temporary Labels.

1. Upon obtaining authorization, the originator writes a brief description and the reason for posting the temporary label in the Operator Aid/Temporary Label Status Book maintained in the Control Room.
2. Post the temporary label. NOTE: Only dymotape labels should be used. Do not use markers, pens, or other similar devices.

C. Removal of Temporary Labels

1. Temporary labels may be removed with the verbal approval of a Shift Supervisor, or
2. Temporary labels shall be removed as soon as a permanent label is available.
3. When removing temporary labels, ensure that the entry in the Operator Aid/Temporary Label Status Book is removed by drawing a line through the entry, dating and initialing the change.

3. Review of Operator Aids/Temporary Labels

A. Twice yearly the Shift Engineers review the Operator Aid/Temporary Label Status Book and the Operator Aids/Temporary Labels posted for the following:

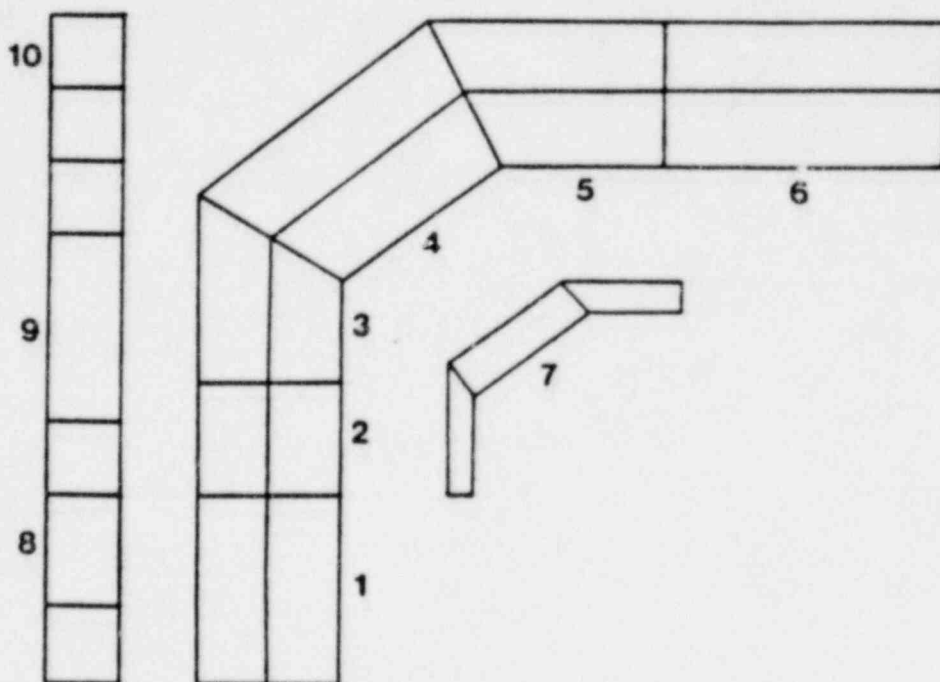
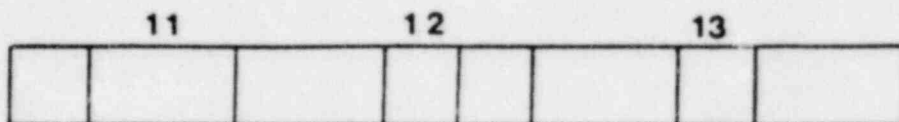
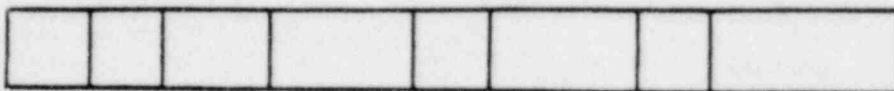
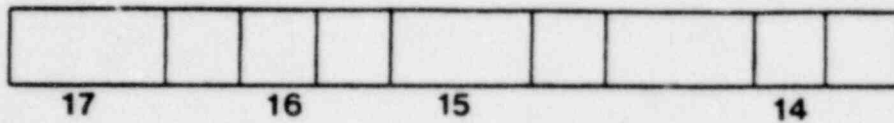
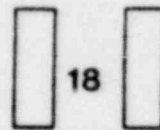
1. Postings are in agreement with their respective description in the status book.
2. Postings are in good repair.
3. The information presented in the posting is valid.
4. Postings do not interfere with existing controls or labels.
5. Need for a permanent label or aid.

- B. During each review, the Shift Engineer consults with the Shift Supervisor or the Operations Department Supervisor to resolve any discrepancies for 3.A.5 above.
 - C. At the end of the review and after all discrepancies are resolved, the Shift Engineer notes in the status book that he has performed the review and documents any resolution of discrepancies that are different from those described in the status book.
4. Operator Aid/Temporary Label Corrective Update
- A. Follow the operator aid or temporary label removal and posting procedure to correct existing postings after obtaining permission to correct them from a Shift Supervisor.

FINAL CONDITIONS:

- 1. Operator Aid/Temporary Label Status Book reflects the current status of all posted operator aids and temporary labels.

ATTACHMENT 5



Location Coding Key

ATTACHMENT 6

ADMINISTRATIVE PROCEDURE AP 0157

IDENTIFICATION OF INOPERATIVE INSTRUMENTATION AND CONTROL OF INDICATING LIGHTS

PURPOSE:

To define the method used to identify inoperative instrumentation and the replacement of indicating light bulbs.

DISCUSSION:

When an instrument becomes suspect, it must be identified to preclude inadvertent use of the instrument by an operator, especially in the case of redundant control room instrumentation.

The sticker used for inoperative instrument is yellow with "Out of Commission", "Date", and "Initials" printed on it. The use of this sticker on portable instruments is explained in AP 0146, Control of Portable Calibration Test Instruments.

When indicating lights become suspect of being burned out, they must be changed out to ensure continued indication of plant conditions. During this changeout, controls are required to preclude the inadvertent interchanging of lens colors such that the meaning of each indicator remains unchanged.

REFERENCES:

- A. Tech Specs
 - 1. None
- B. Admin Limits
 - 1. None
- C. Other
 - 1. ANSI N18.7 Section 5.2.6
 - 2. AP 0025, Plant Equipment Control

PROCEDURE:

1. Control of Indicating Light Lens Colors
 - A. When Control Room component indicating lights are suspected of being burned out, the bulbs are to be checked/changed one at a time or concurrently with other indicating lights having the same color lenses. At no time shall indicating lens caps of different colors be removed simultaneously.

2. Control of Inoperative Instruments

- A. When a Control Room instrument is found to be questionable, defective, or out of calibration, notify the Shift Supervisor and attach a properly completed yellow "Out of Commission" sticker to the instrument.
- B. Insure other indication is not covered due to sticker placement.
- C. After the tag is attached, the person who discovered the problem submits a Maintenance Request.
- D. The Shift Supervisor shall note in the "Return to Service" space on the Maintenance Request the following:
 - 1. Upon satisfactory completion of repair (and retest if safety-related), the "Out of Commission" sticker must be removed from the instrument and the equipment removed from the "IN-OP" section of VYAPF 0152.01 (Shift Turnover Checksheet).
- E. The Shift Supervisor then consults AP 0025, Plant Equipment Control, to determine if any additional action is necessary.
- F. The completed return to service section of the Maintenance Request controls and documents the removal of the Out-of-Commission stickers.