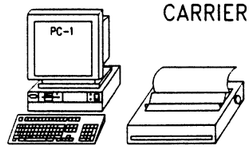
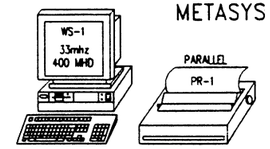
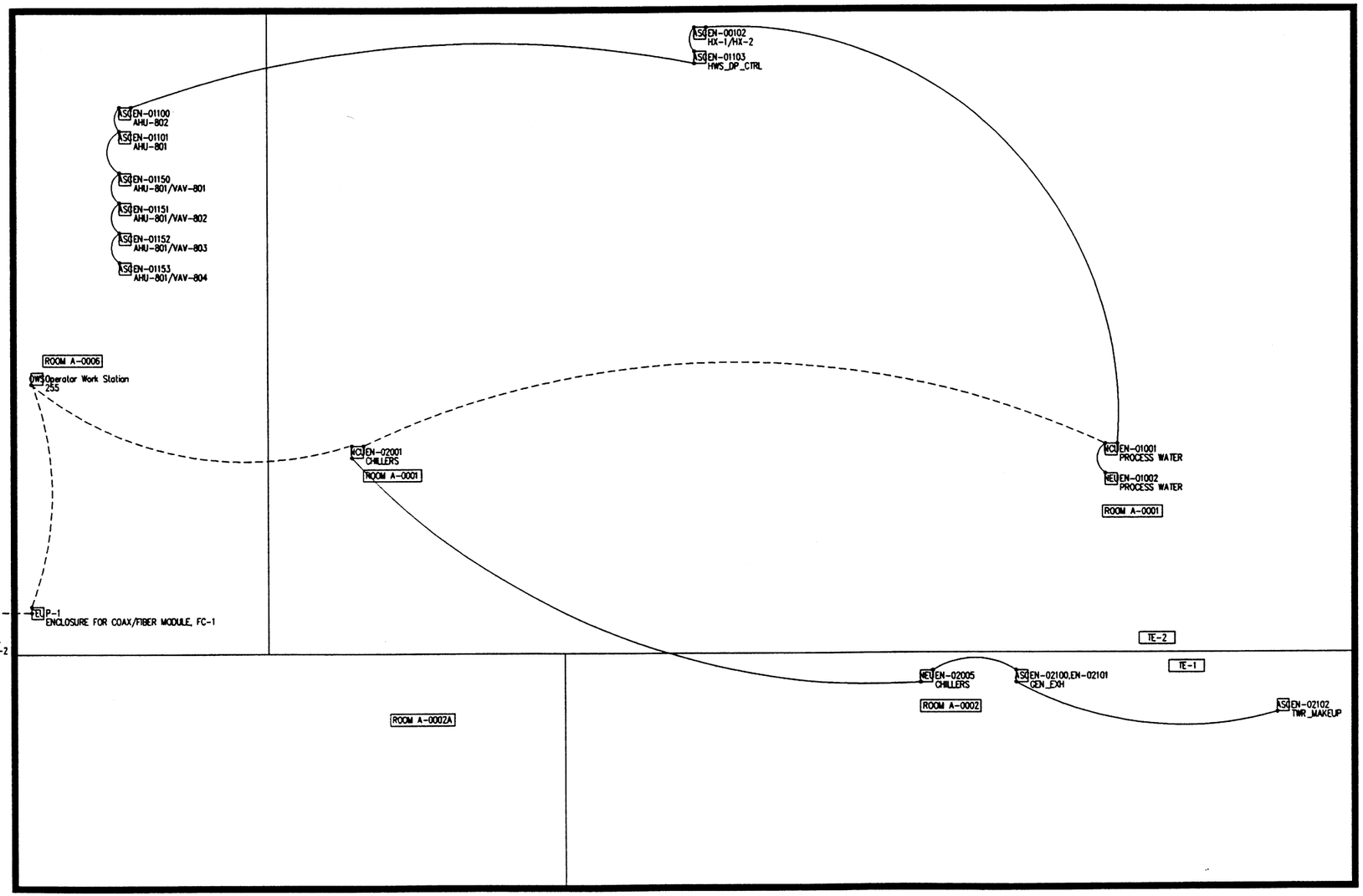


CARRIER DESKTOP PC

Building 450, Utilities
Control Hardware Locations and Communications Layout



METASYS OWS



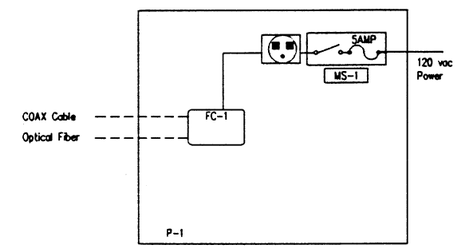
FIELD MATERIAL

DEVICE TAG	QTY	CODE NUMBER	DESCRIPTION
PC-1	1	XXX-XXX-XXX	CHILLER CONTROL WORKSTATION-CARRIER
WS-1	1	MODEL 95-0K9	IBM 486/33
	1	IBM 8512	COLOR VGA MONITOR
	1	IBM T/S	MONITOR STAND
	1	JCI-PS/2 ANC	N1 COMM CARD COAX
	1	M0249884	MICROSOFT MOUSE
	1	--------	SURGE PROTECTOR
	2	--------	COMPUTER DESK
	1	MULTITEC	TABLE TOP MODEM, 9600 BAUD
	1	094291	BNC CRIMP-ON CONNECTOR-ANIXTER
	1	097643	BNC T CONNECTOR-ANIXTER
	1	124313	COAX 93 OHM TERMINATOR-ANIXTER
	1	DESIGNER	VERSION 3.01-SV SPECTRU
	1	EXCEL	VERSION 3.00-SV SPREADSHEET
	1	WORDPREFECT	VERSION X.XX-SV WORD PROCESS
	1	WINDOVS	VERSION 3.0-SV SPECTRU
	1	WS-SVOGPL-003	WORKSTATION GPL, NEV SV
	1	WS-SVOPMI-003	WORKSTATION PMI, NEV SV
PR-1	1	OD-321	OD 321, 80 COL
	1	WS-PI1525-612	PRINTER CABLE (6FT.)
	2	--------	PRINTER STAND

PANEL MATERIAL

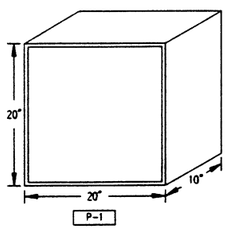
DEVICE TAG	QTY	CODE NUMBER	DESCRIPTION
FC-1	1	MOD_HUB-16	FIBER/COAX LAN HUB-CCC
	1	EXP-CXS/FOG-ST	2ST 28NC MODHUB EX MOD-CCS
MS-1	1	PD-112-22	BUSS SSU FUSE HOLDER/
	1	PD-112-23	FUSE T-5 (SAMP) FOR
P-1	1	ENC-1000-11	ENCLOSURE 20"X20"
	1	ENC-1000-114	PLYMETAL SUBPLATE 20X20
	1	ENC-1000-116	DOOR, VENTILATED 20"X20"

MOUNT FIELD COMMUNICATIONS MODULE INSIDE PANEL, P-1
AT THE POINT WHERE THE COAX MEDIA ENTERS BUILDING 450.



ICS Legend

- ASC Enclosure No. System
- NCU Enclosure No. Label No. 1
- NEU Enclosure No. Label No. 1
- FEU Assoc. Enclosure Label No. 1
- OWS Operator Work Station Node Address



ASC = Application Specific Controller, N2 Device(s)
NCU = Network Control Unit, N2 Control Module and/or N1 Device(s)
NEU = Network Expansion Unit, N2 Control Module Device(s)
FEU = Field Equipment Unit, Auxillary Control Devices

N2 LINE ————————————

N1 LINE - - - - - - - - - - - - - - - - - -

Enclosure Numbering System

EN-X X X X X

EN-X X X X X

Assoc. NCM — N2 Address

Example
EN-10103 Controlling NCM=10 and the N2 Address is 103

Notes:

1. See engineering document in the JCI installation standards manual for N2 communication line terminations.
2. COAX N1 communication cable is type RG-62A/U.
3. Optical Fiber, N1 communication media is 62.5 micron.
3. All material designated with (P) preceeding the device tag in the Bill of Material is proprietary and is being supplied by Johnson Controls, Inc. All other material is considered non-proprietry.

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FILE: 450_LAY

REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		RECORD		05/11/94	SF
	3	ADD EN-02102		09/09/93	SF
	2	GENERAL		06/30/93	SF

SALES ENGR	PROJECT MGR	APPL. ENGR	DRAWN		APPROVED	
JP	SF	DCS	BY SF	DATE 11/19/91	BY	DATE

DRAWING TITLE
Buidling 450 - Utilities
Integrated Control System
Network Communication Layout
and Equipment Locations

PROJECT
The Argonne National Labs
Advanced Photon Source Campus
9700 Cass Avenue South
Argonne, IL 60439

JOHNSON CONTROLS
Systems & Services Division

3007 MALMO ROAD
ARLINGTON HEIGHTS
ILLINOIS 60005
708/364-1500 Main
708/806-4438 Eng

CONTRACT NUMBER
91390-0009

DRAWING NUMBER
91-9-A-11A