EQUIPMENT NAMING CONVENTION FOR SNS-ELECTRICAL

THE FORMAT IS: cc – XbbY
WHERE cc – IS THE BUILDING FOR EQUIPMENT LOCATION
X – IS THE SUBSTATION NUMBER
bb – IS THE EQUIPMENT TYPE
Y – IS THE EQUIPMENT SEQUENCE NUMBER

EQUIPMENT TYPE	bb CODES
POWER PANEL, 480V, 3 PH, 3 W	P
LIGHTING & POWER PANEL 480/277 V, 3 PH, 4 W	L OR LP
PANEL 208/120 V, 3 PH, 4W	PP
DISTRIBUTION PANEL 480V, 480/277 V, 208/120 V, 3 PH 3W & 3 PH 4W	DP
EMERGENCY POWER PANEL 480V, 3 PH, 3W	EP
EMERGENCY LIGHTING & POWER PANEL 480/277 V, 3 PH, 4W	EL
EMERGENCY PANEL 208/120 V, 3 PH, 4W	EPP
EMERGENCY DISTRIBUTION PANEL	EDP
TRANSFORMER	T
EMERGENCY GENERATOR	EG
AUTOMATIC TRANSFER SWITCH	ATS
UNIT SUBSTATION	SS
SWITCH GEAR	SG
MOTOR CONTROL CENTER	MCC
UNINTERRUPTIBLE POWER SUPPLY	UPS
CLEAN POWER 208/120V, 3PH, 4W	CPP
UNINTERRUPTIBLE EMERGENENCY PANEL	UEP
LIGHTING CONTACTOR	LC
VARIABLE FREQUENCY DRIVE	VFD
MEDIUM VOLTAGE MOTOR STARTERS	MV
FAN CONTROL (2)	FC
EXHAUST FAN CONTROL	EFC
RADIATION DETECTOR (4)	RD
CHIPMONK DETECTOR	CMK

BUILDING NAME	cc CODES
CENTRAL LAB OFFICE BLDG.	CL
CENTRAL UTILITIES BLDG.	CU
CENTRAL EXHAUST ENCLOSURE AREA	PE
FRONT END	FE
HEBT	HE
HEBT SERVICE BUILDING	HS
KLYSTRON	KL
LINAC	LN
RING	RG
RING SERVICE BLDG.	RN
RTBT	RT
RTBT SERVICE BLDG.	RS
TARGET	TA
TARGET BLDG. (1)	TB
TECHNICAL SERVICES SUPPORT	TS
RING INJECTION BEAM DUMP BUILDING	RI
CENTRAL HELIUM LIQUIFIER BUILDING	CH
RADIO FREQUENCY BUILDING	RF
PROCESS WASTE FACILITY	PW
BOOSTER PUMP STATION	BP

EQUIPMENT CALL OUT ON DRAWINGS:

KL – 9 EPP 1
- EQUIP. SEQUENCE #
- bb CODES
- UNIT SUBSTATION #
- cc CODES

GENERAL NOTES

1. ALL WORK SHALL BE INACCORDANCE WITH FEDERAL CODES AND ORDINANCES.
2. THE CONTRACTOR SHALL READ ALL THE GENERAL NOTES, SPECIFICATIONS AND PLANS AND SHALL BE SATISFIED TO THEIR TRUE MEANING AND INTENT AND SHALL BE RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF EACH. WHEREVER TWO OR MORE SPECIFICATIONS OR PLANS AND SPECIFICATIONS MAY CONFLICT THE MORE STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
3. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIAL NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THIS WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES THAT MAY EXIST IN THE PLANS AND/OR THE SPECIFICATIONS PRIOR TO SUBMITTING BID. THE CONSTRUCTION MANAGER'S AND THE ENGINEER'S INTERPRETATION THEREOF SHALL BE CONCLUSIVE.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER.
5. THE CONTRACTOR SHALL INSTALL ALL CONDUIT SYSTEMS TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. NOTIFY THE CONSTRUCTION MANAGER OF ANY DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION.
6. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE AND SUBJECT TO THE APPROVAL OF THE CONSTRUCTION MANAGER.
7. THE CONTRACTOR SHALL PERSONALLY, OR THROUGH AN AUTHORIZED AND COMPETENT REPRESENTATIVE, CONSTANTLY SUPERVISE THE WORK FROM BEGINNING TO FINAL ACCEPTANCE. DURING ITS PROGRESS THE WORK SHALL BE SUBJECT TO INSPECTION BY THE CONSTRUCTION MANAGER. AT SUCH TIMES THE CONTRACTOR SHALL PROMPTLY FURNISH ANY REQUIRED INFORMATION.
8. INSTALL ALL ELECTRICAL WORK TO CLEAR WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC., SHALL BE IN CONTACT WITH ANY ELECTRICAL EQUIPMENT.
9. CONNECT ALL EQUIPMENT FIRNISHED UNDER TRADES AS REQUIRED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY OF HIS WORK PRIOR TO FINAL ACCEPTANCE. SHOULD EQUIPMENT BECOME DAMAGED OR DISFIGURED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION AND FINISH, BEFORE FINAL ACCEPTANCE, AND AT NO EXPENSE TO THE OWNER.
11. OWNER RESERVES THE RIGHT THROUGH THE CONSTRUCTION MANAGER TO MOVE ANY DEVICES OR EQUIPMENT SHOWN UP TO 10'–0" IN ANY DIRECTION PRIOR TO CONDUIT ROUGH–IN AND AT NO ADDITIONAL COST.
12. UPON COMPLETION OF HIS WORK THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO CONSTRUCTION MANAGER THAT INSTALLATION IS OPERATING AS INTENDED. TESTING SHALL COMPLY WITH ALL REQUIREMENTS LISTED IN SPECIFICATIONS. ANY DEFECTS OR DEFICIENCIES IN MATERIALS OR WORKMANSHIP NOTED BY THE CONSTRUCTION MANAGER SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.
13. CONDUIT ROUTING AND ELEVATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED SLIGHTLY DUE TO THE COORDINATION EFFORT DESCRIBED ABOVE, OR DUE TO OBSTRUCTIONS ENCOUNTERED DURING CONSTRUCTION. COORDINATE ANY MAJOR ADJUSTMENTS (MORE THAN 10') WITH THE CONSTRUCTION MANAGER. MAJOR ADJUSTMENTS SHALL BE REFLECTED ON AS–BUILT DRAWINGS.
14. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATINGS OF WALLS. PROVIDE PENETRATIONS SEALING SYSTEMS (FIRE STOP) FOR ALL PENETRATIONS THROUGH FIRE RATED WALLS IN ACCORDANCE WITH THE SPECIFICATIONS.
15. LUMINAIRE SYMBOLS SHOWN ON ELECTRICAL DRAWINGS ARE GENERIC GRAPHIC REPRESENTATIONS. REFER TO SPECIFICATIONS AND LIGHT FIXTURE SCHEDULE FOR SPECIFIC SOURCE, TYPE AND MOUNTING.
16. MINIMUM SIZE OF ANY ELECTRICAL CONDUIT SHALL BE 3 /4". MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG, COPPER, UNLESS OTHERWISE NOTED. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEDDER AND BRANCH CIRCUIT CONDUITS.
17. ELECTRICAL EQUIPMENT AND FEEDERS SHALL BE SUPPORTED AND/OR ANCHORED IN ACCORDANCE WITH SEISMIC REQUIREMENTS SHOWN FOR PROJECT.
18. CONTRACTOR SHALL MAINTAIN AT JOB SITE AN UP TO DATE "AS–BUILT" DRAWING SET WHICH SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. "AS–BUILT" SET SHALL BE KEPT IN CLEAN AND GOOD CONDITION AND SHALL BE TURNED OVER TO CONSTRUCTION MANAGER AT THE COMPLETION OF PROJECT.
19. ACCESS AROUND CABLE TRAYS SHALL BE MAINTAINED AS FOLLOWS: 24" ON EITHER SIDE, 12" ABOVE. UNLESS OTHERWISE NOTED, OTHER SYSTEMS SHALL NOT BE MOUNTED ON CHANNEL SUPPORT TRAPEZE FOR THE CABLE TRAY, OR TO THE CABLE TRAY.
20. CONTRACTOR SHALL REMOVE RUBBISH WASTE MATERIALS ON A DAILY BASIS AND PROTECT AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH MAY OCCUR.
21. TARGET BUILDINGS:
THE FOLLOWING WORK IS IN INCLUDED IN THE SUBSTRUCTURES PACKAGE AND NOT IN THE SCOPE OF THE GENERAL PACKAGE
   A) BASEMENT CONCRETE WALL PENETRATIONS (SLEEVES), EMBEDMENTS AND STUBUOS IN THE MAT.
   B) LEVEL 1 FLOOR PENETRATION (SLEEVES AND OPENINGS)
THE ABOVE DOES NOT APPLY TO 2TU, 11TU AND COMPRESSOR BUILDING STRUCTURES.
ALL WALL SLEEVES AND FLOOR STUBUPS IN THESE BUILDINGS ARE PART OF THE GENERAL PACKAGE.

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

SECTION AND DETAIL KEY: NUMBER OF SECTION OR DETAIL / DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 4
ENGINEERING PROCEDURE SNS-ENG-G001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
4				(TARGET) CERTIFIED FOR CONSTRUCTION – 10/26/01	LP	VGS			[illegible]	11/14/01	RAD	11/13/01			[illegible]	11/13/01	VGS	106009	10/26/01	SP	TW	BS	RL	BS	BJ	–	BS	–	WS
3	C	4	–	(FELK) BASIS OF AWARD – 10/3/01	LP	VGS			CLG	10/9/01	TJM	10/8/01			JRL	10/9/01	VGS	106009	10/03/01	SP	TW	BS	RL	BS	BJ	–	BS	–	WS
2				(CHL/RF) CERTIFIED FOR CONSTRUCTION – 07/27/01	LP	VGS			CLG	7/31/01	JPS	7/30/01			JRL	7/31/01	VGS	106009	07/27/01	SP	TW	BS	RL	BS	BJ	–	BS	–	WS
1				(CUB) CERTIFIED FOR CONSTRUCTION – 07/13/01	LP	VGS			JRL	7/17/01	TJM	7/16/01			JRL	7/17/01	VGS	106009	07/13/01	SP	TW	BS	RL	BS	BJ	–	BS	–	WS
0				(FELK–GENERAL) CERTIFIED FOR CONSTRUCTION – 6/27/01	LP	VGS			CLG	6/28/01	TJM	6/28/01			JRL	6/28/01	VGS	106009	06/27/01	SP	TW	BS	RL	BS	BJ	/	BS	/	WS

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: VICTOR G. STEFFEN, REGISTERED ENGINEER, No. 00106009, STATE OF TENNESSEE — 4 10-26-01 (REV. / DATE)

DRAWING APPROVALS		
DSN	L. PACHECO	06/27/01
DRW	L. PACHECO	06/27/01
CHK	V. STEFFEN	6/27/01
DEPT		
PE	J. SCHUBERT	07/16/01
PJ	T. MCLAUGHLIN	07/16/01
REQ		
UTB	J.R.LAWSON	4/2/01

108030000-E8E-8000-A003

Knight/Jacobs Joint Venture
701 Scarboro Road, MS 8253
Oak Ridge, TN 37830
865–241–9433
fax 865–241–3400

KNIGHT
Knight Advanced Technology
1453 Mission Street
San Francisco, CA 94103

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PROJECT NAME:
SPALLATION NEUTRON SOURCE

ELECTRICAL NOTES

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8000		1	1	G	U

51	52	53	WBS	DWG	REV
NC	NA		1.8.3	E0.00.02	4