

DWG ISS	CD ISS	DATE ISSUED	APPD
13M	5M APP -	3-17-2000	

5ESS & 7R/E
CURRENT DRAIN DATA
SD5D002-01

SHEET INDEX

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BT13
SD-5D002-01
SHEET 1 of 101
DWG SIZE 1S

CKT NO	CKT TITLE	EQPT UNIT ABBREV	EQPT DWG	CKT PER EQPT UNIT	ACTIVITY FACTORS (see notes 1 & 2)	
					List 1	List 2
* denotes the additions						
1A277-01	DIAL TONE DELAY	DTDU	J1A042BP-1	1	1.00	1.00
2P077-01	DIRECTLY CONNECTED TEST U	DCTU	J1P023AM-1	1	1.00	1.00
2P408-01	DATAKIT II (HIGHGATE)		J1P186A-1	1	1.00	1.00
3F005-01	ANALOG ACCESS FRAME	AAF	J3F009A-1	1	1.00	1.00
3F008-01	3B INTERFACE		J3F011AA-1	1	1.00	1.00
3F009-01	LINK NODE UNIT A	LN	J3F011AB-1	1	1.00	1.00
3F010-01	LINK NODE UNIT B	LN	J3F011AC-1	1	1.00	1.00
3F020-01	RING NODE	RN	J3F010C-1	1	1.00	1.00
3F020-01	CNI RING NODE	CNI	J3F011C-1	1	1.00	1.00
3F020-11	RING NODE	RING	J3F011C-1	1	1.00	1.00
3F021-11	DIGITAL FACILITY ACCESS	DFA	J3F010B-1	1	1.00	1.00
3F021-01	DFA	DFA	J3F010B-1	1	1.00	1.00
3F021-01	RING NODE FRAME	RING	J3F011B-1	1	1.00	1.00
3F021-01	DFA	DFA	J3F010G-1	1	1.00	1.00
3F027-01	DFA	DFA	J3F010F-1	1	1.00	1.00
3H911-01	DIST POINT APPLIQUE	DPA	J3H001EF-1	1	1.00	1.00
3T015-01	3B21D Processor	3B21D	J3T061A-1			
4C053-01	3B SCSI DRIVES	SCSI	J3T027A-1	1	1.00	1.00
4C053-01	3B SCSI DRIVES	SCSI	J1C176C1,L22	1	1.00	1.00
4C100-01	3B PROC 7FT PCF0,1	3B20	J1C147B-1	1	1.00	1.00
4C100-01	3B PROC FAN UNIT	3B20	ED4C387-30	1	1.00	1.00
4C107-01	3B PROC 7FT MHD	3B20	J1C169A-1	1	1.00	1.00
4C107-01	3B PROC 7FT MHD CONTROL	3B20	J1C131AA-1	1	1.00	1.00
4C115-01	3B BASIC IOP	3B20	J1C161BB-1	1	1.00	1.00
4C115-01	3B GROWTH IOP	3B20	J1C161BC-1	1	1.00	1.00
4C119-01	3B PROC 6FT PCCA1	PCCA1	J1C173A-1	1	1.00	1.00
4C119-01	3B PROC 6FT TUCA1	TUCA1	J1C174A-1	1	1.00	1.00
4C119-01	3B PROC 6FT DPC1	DPC1	J1C175A-1	1	1.00	1.00
4C122-01	3B PROC 6FT 30" (PCCA)	PCCA	J1C176B-1	1	1.00	1.00
4C122-01	3B PIC J1C215A CAB 6FT 30	PIC	J1C176B-1	1	1.00	1.00
5D008-01	OFFICE ALARM	OA	J5D005AD-1	1	1.00	1.00
5D008-01	REMOTE OFFICE ALARM	ROAU	ED5D570-30,G	1	1.00	1.00
5D015-01	MODULAR METALLIC SERVICE	MMSU	J5D003BD-1	1	1.00	1.00
5D017-01	AUD/VISUAL ALARM	AV ALM	ED5D141-10	1	1.00	1.00
5D017-01	REMOTE ALARM RELAY UNIT	RALMU	J5D003CB-1	1	1.00	1.00
5D017-01	ALARM ?	ALARM	ED5D586	1	1.00	1.00
5D019-01	FAN3	FAN 3	J5D003AF-1	1	1.00	1.00
5D019-02	FAN3	FAN 3	J5D003BE-2	1	1.00	1.00
5D026-01	MESSAGE SWITCH CONTROL	MSCU	J5D006AB-1	1	1.00	1.00
5D027-01	MESSAGE PROCESSOR	MPU	J5D006AC-1	1	1.00	1.00
5D033-01	METALLIC SERVICE	MSU	J5D003AL-1	1	1.00	1.00
5D034-01	FUSE/PANEL 2	FFP 2	J5D003AM-1	1	1.00	1.00
5D035-01	DIGITAL SERVICE	DSU	J5D003AE-1	1	1.00	1.00

FS 1 SHEET 3

5D037-01	TIME MULT CONT	TMSU	J5D001AA-1	1	1.00	1.00
SD040-01	MODULE CONTROL UNIT	MCU	J5D003AA-1	1	1.0	1.0
5D040-02	SWITCH MODULE PROCESSOR	SMPU	J5D003AA-2	1	1.00	1.00
5D041-01	TIME SLOT INTER	TSIU	J5D003AB-1	1	1.00	1.00
5D043-01	TIME MULTIPLEX SW PHASE 2	TMSU 2	J5D001AB-1	1	1.00	1.00
5D044-01	RESISTOR PANEL	RP	J5D005AA-1	1	1.00	1.00
5D045-01	TIME SLOT INTER MODEL 2	TSIU 2	J5D003AT-1	1	1.00	1.00
5D048-01	MEMORY EXPANSION	MEU	J5D003BH-1	1	1.00	1.00
5D051-01	LINE UNIT	LU 1	J5D004AB-1	1	.60	.60
5D052-01	LINE UNIT MODEL 2	LU 2	J5D004AC-1	1	.60	.60
5D053-01	FUSE/FILTER 2	FFP 2	J5D003AU-1	1	1.00	1.00
5D060-01	COMMUNICATION MOD CONTROL	CMCU	J5D020AA-1	1	1.00	1.00
5D061-01	TIME MULTIPLEX SWITCH 2	TMSU 2	J5D020AD-1	1	1.00	1.00
5D064-01	LINK ADAPTER	LAU	J5D003FG-1	1	1.00	1.00
5D066-01	MESSAGE SWITCH PERIPHER 2	MSPU 2	J5D006AF-1	1	1.00	1.00
5D074-01	PACKET SWITCH	PSU	J5D003BL-1	1	1.00	1.00
5D075-01	REMOTE CLOCK	RCU	J5D003FC-1	1	1.00	1.00
5D077-01	MESSAGE SWITCH CONTROL 2	MSCU 2	J5D020AB-1	1	1.00	1.00
5D078-01	MESSAGE SWITCH PERIPHER 3	MSPU 3	J5D020AC-1	1	1.00	1.00
5D081-01	FAN6	FAN 6	J5D003BN-1	1	1.00	1.00
5D081-02	6 FAN UNIT	FAN 6	J5D003BN-2	1	1.00	1.00
5D082-01	MESSAGE INTERFACE/CLOCK 2	MICU 2	J5D006ED-1	1	1.00	1.00
5D083-01	FUSE PANEL +48	FU +48	J5D003AJ-1	1	1.00	1.00
5D084-01	FUSE/FILTER PANEL 3	FFU 3	J5D003BJ-1	1	1.00	1.00
5D085-01	ECL BUS	ECL	J5D020AE-1	1	1.00	1.00
5D086-02	TRANSMISSION RATE CONV	TRCU	J5D003ED-2	1	1.00	1.00
5D086-01	TRANSMISSION RATE CONV	TRCU	J5D003ED-1	1	1.00	1.00
5D087-01	FUSE/FILTER 4	FFP 4	J5D003BT-1	1	1.00	1.00
5D089-01	ISLU COM SHELF	ISLU 1	J5D004AG-1	1	1.00	1.00
5D090-01	ISLU DRAWER	ISLU 1	J5D004AH-1	1	1.00	1.00
5D091-01	ISLU MASTER	ISLU 1	J5D004AK-1	1	1.00	1.00
5D092-01	DIGITAL SERVICE 2	DSU 2	J5D003EA-1	1	1.00	1.00
5D098-01	MODEM POOLING	MOD U	J5D007B-1	1	1.00	1.00
5D099-01	TEST ACCESS UNIT	TAU	ED5D092-30	1	1.00	1.00
5D094-01	MODULE CONTROLLER TSI	MCTSI	J5D003EC-1	1	1.00	1.00
5D101-01	MAINT CONTROL CENTER	MCC	ED5D039-35	1	1.00	1.00
5D110-01	CONVERTER	CONV U	J5D005AB-1	1	1.00	1.00
5D110-01	DIAL TONE DELAY ALARM	DTDA U	J5D005AC-1	1	1.00	1.00
5D125-01	MESSAGE INTERFACE/CLK	MICU	J5D006AA-1	1	1.00	1.00
5D126-01	MESSAGE PROCESSOR	MPU	J5D006AC-1	1	1.00	1.00
5D129-01	SWITCH MODULE PROC 2	SMPU 2	J5D003AY-1	1	1.00	1.00
5D135-01	OPERATOR SERVICE POS	OSPS	J5D003H-1	1	1.00	1.00
5D136-01	MESSAGE SWITCH PERIPHERAL	MSPU	J5D006AD-1	1	1.00	1.00
5D142-01	TEST ACCESS UNIT	TAU	ED5D095	1	1.00	1.00
5D148-01	ALARM AND STATUS UNIT 2	ASU	ED5D678-10	1	1.00	1.00
5D148-01	MMRSM ALARM AND STATUS U	ASU	ED5D586-10	1	1.00	1.00
5D151-01	MOD CONTR TIMESLOT 2	MCTU 2	J5D003LA-1	1	1.00	1.00
5D159-01	ADVANCED COMMUN PKG	ACP	J5D038A-1	1	1.00	1.00
5D161-01	ADVANCED COMMUN PKG	ACP	J5D038A-1	1	1.00	1.00
5D162-01	FAN6 EXHAUST	FAN 6	J5D003BW-1	1	1.00	1.00
5D165-01	TRANSMISSION FACILITIES	TFU	J1C251A-1	1	1.00	1.00
5D167-01	SWITCHING TRANSMISS INTER	STIU	J5D003JA-1	1	1.00	1.00
5D168-01	FAN6 BIDIRECTIONAL	FAN 6	J5D003FH-1	1	1.00	1.00
5D170-01	APPLICATION PROCESSOR CAB	AP	J5D030A-1	1	1.00	1.00

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5D178-01	COMMUN MODULE PROCESS UN	CMPU	J5D020AF-1	1	1.00	1.00
5D180-01	LINE UNIT 3	LU 3	J5D004AD-1	1	.60	.60
5D191-01	TIME MULTIPLEXED SWITCH 3	TMSU3	J5D020AG-1	1	1.00	1.00
5D191-01	TIME MULTIPLEXED SWITCH 3	TMSU3	J5D020AG-2	1	1.00	1.00
	COMMUNICATION MODULE MOD 3	CM3	J5D020C-1	1	1.00	1.00
5D192-01	INTEGRATED SERVICES LU2	ISLU 2	J5D004AL-1	1	1.00	1.00
5D195-01	SWITCH MOD PROCESSOR 4	SMPU 4	J5D003NA-1	1	1.00	1.00
5D196-01	TIME SLOT INTR UNIT 4	TSIU 4	J5D003NB-1	1	1.00	1.00
5D196-02	TIME SLOT INTR UNIT 4-V2	TSIU4	J5D003NB-2	1	1.00	1.00
5D197-01	DIGITAL SERVICE UNIT 3	DSU 3	J5D003NC-1	1	1.00	1.00
5D201-01	DIGITAL LINE TRUNK	DLTU	J5D003AD-1	1	1.00	1.00
5D202-01	DIGITAL CARRIER LINE	DCLU	J5D003AR-1	1	1.00	1.00
5D202-02	DIGITAL CARRIER LINE SUP	DCLU S	J5D003AS-1	1	1.00	1.00
5D204-01	DIGITAL LINE TRUNK REMOTE	DLTU R	J5D003FF-1	1	1.00	1.00
5D205-01	DIGITAL LINE TRUNK 2	DLTU 2	J5D024AA-1	1	1.00	1.00
5D300-01	TRUNK	TU	J5D003AC-1	1	.90	.90
5D301-01	INT DIGITAL CARRIER	IDCU	J5D003FL-1	1	1.00	1.00
5D400-01	FACILITY INTERFACE 1	FIU 1	J5D003AP-1	1	1.00	1.00
5D401-01	FACILITY INTERFACE 2	FIU 2	J5D003AP-2	1	1.00	1.00
5D401-02	FACILITY INTERFACE 3	FIU 3	J5D003AP-3	1	1.00	1.00
5D501-01	DIGITAL LINE TRUNK 3	DLTU3	J5D003FN-1			
5D503-01	ENHANCED 911 SERVICE ADJ	E911	ED5D729	1	1.00	1.00
5D513-01	COMMUNICATION MODULE 2	CM2C	J5D020AJ-5	1	1.00	1.00
5D517-01	REMOTE LINE GROUP	LG	J5D004AM-1	1		
5D523-01	PACKET SWITCH UNIT- MODEL	2 PSU2	J5D003BY-1	1		
5D525-01	DIGITAL NETWORK UNIT	DNU	J5D003FR-1	1		
5D528-01	EXTND CNTL DATA UNIT	XCDU	J5D003NF-1			
5D530-01	COMBINED SERVICE UNIT	CSU	J5d003FS-1	1	1.0	1.0
5D545-01	SWITCH MOD PROC UNIT - 5	SMPU5	J5D003NG-1			
5D555-01	TRANS. RATE CONVERTER	TRCU3	J5D003EF-1	1	1.0	1.0
5X200-01	LOCAL DIGITAL SERVICE EX	LDSU E	J5D003BB-1	1	1.00	1.00
5X201-01	GLOBAL DIGITAL SERVICE EX	GDSU E	J5D003BC-1	1	1.00	1.00
5X202-01	PERIODIC PULSE METERING	PPMU	J5D003AW-1	1	1.00	1.00
5X203-01	ANALOG TRUNK EXPORT	ATU E	J5D003AG-1	1	1.00	1.00
5X204-01	DIG LINE TRK EXPORT	DLTU-E	J5D003BA-1	1	1.00	1.00
5X205-01	LINE 2 EXPORT	LU 2 E	J5D004AE-1	1	1.00	1.00
5X213-01	ECHO CANCEL SIGNAL EXPORT	ECSU E	J5D003JD-1	1	1.00	1.00
6A021-01	RING NODE DFRF	RN	J3F010G-1	1	1.00	1.00
7C128-01	TRANS FACIL INTER UNIT	TFIU	J1C218AA-1	1	1.00	1.00
7C129-01	NET ACCES INTER UNIT	NAIU	J1C219AA-1	1	1.00	1.00
8G000-01	ACCESS INTERFACE UNIT Cab	AIU	J8G000AA-1			
*	PCT Data Exchange Unit (for XAIU,Multiplexed AIU)	PDXU	J8G000BA-1			
82179-01	INVERTER (FERRO-RESONANT)	INV	KS20816L1A	1	1.00	1.00
927-62000	INVERTER POWER MARK 6114	INV 1K	WP91652L20	1	1.00	1.00
930-62000	INVERTER POWER MARK 6254	INV 5K	WP91652L50	1	1.00	1.00
97753-01	13A ANNOUNCEMENT	13A Ann	J1C121A-1	1	1.00	1.00
97798-01	14A ANNOUNCEMENT	14A Ann	J1C194A-1	1	1.00	1.00
97798-01	13A/14A REMOTE RECD UNIT	RRU	J1C259A-1	1	1.00	1.00
97813-01	13A+ Announcement	13A+ Ann	J1C121A-2	1	1.00	1.00
97815-01	15A Announcement	15A Ann	J1C267A-1	1	1.00	1.00
97816-01	16A Announcement	16A Ann	J1C273A-1			
*97817-01	17A Announcement	17A Ann	J1C275A-1			

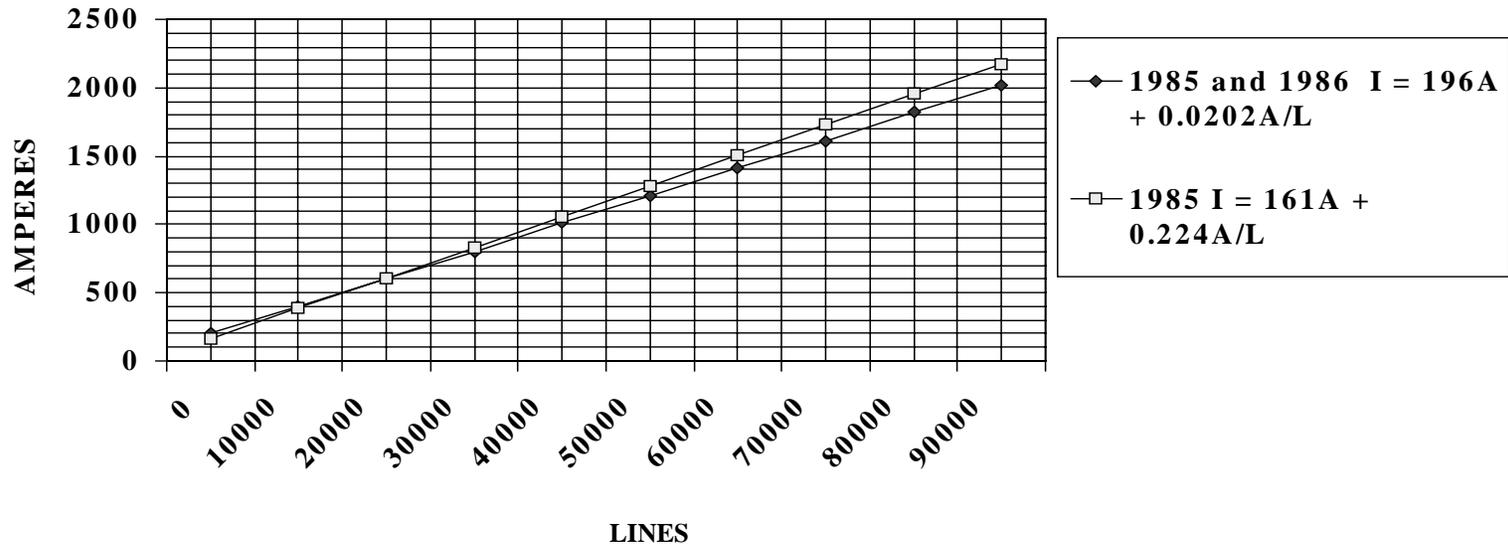
FS 1 SHEET 5

*	Remote Access Concentrator	RACU	J5D061AA-1			
*	ADMINISTRATIVE SERV MODULE	ASM	ED5D839-30			
*	COMMUNI INTER-WORKING V.2	GSW-IWF	ED5D876-30			
*	CBX 500 ATM SWITCH	CBX500	ED5D878-30			
*	MAX TNT WIDE AREA NETWORK	WAN	ED5D883-30			
*	7R/E FABRIC CABINET e/w CAJUN M770 Multi SW Hub Assy	FAB	J7R000A-1 ED7R001-30 ED7R002-30			
*	7R/E TRK ACCESS GATEWAY e/w MMCX	TAG (MMCX) not in use	J7R001A-1			
*	7R/E Multi Media Resource Server Cabinet	MMRS	J7R002A-1			
*	7R/E ONELINK MGR Cabinet	OLM	J7R003A-1			
*	7R/E Multi Service Solution Cabinet	MSS	J7R004A-1			
*	7R/E Packet Local Solution Trunk Access Gateway (Packet Voice Gateway)	TAG (PVG)	J7R010A-1			

Notes:

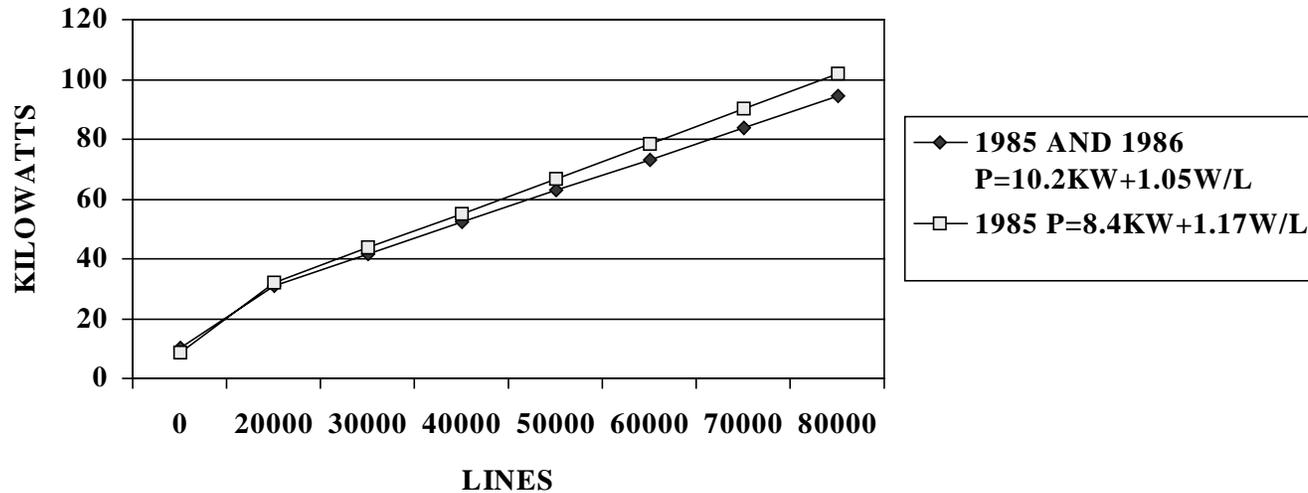
1. ACTIVITY FACTORS HAVE BEEN USED TO COMPUTE THE TRAFFIC-DEPENDENT PART OF THE CIRCUIT CURRENT DRAIN. THEY REPRESENT THE FRACTION OF THE BUSY HOUR THAT THE CIRCUIT IS IN USE.
2. AVERAGE BUSY HOUR ACTIVITY FACTORS HAVE BEEN USED FOR LIST 1 COMPUTATIONS AND PEAK BUSY HOUR ACTIVITY FACTORS HAVE BEEN USED FOR LIST 2 COMPUTATIONS.

PART OF FS 2 5ESS OFFICE DRAINS Figure 1



Offices in Service 1985 and 1986, 8:1 C.R.
 Actual Measured Power Input in Working Offices
 Assumptions: < 4.0 CCS/L
 8:1 C.R.
 Normal Trunking
 No ISLUs

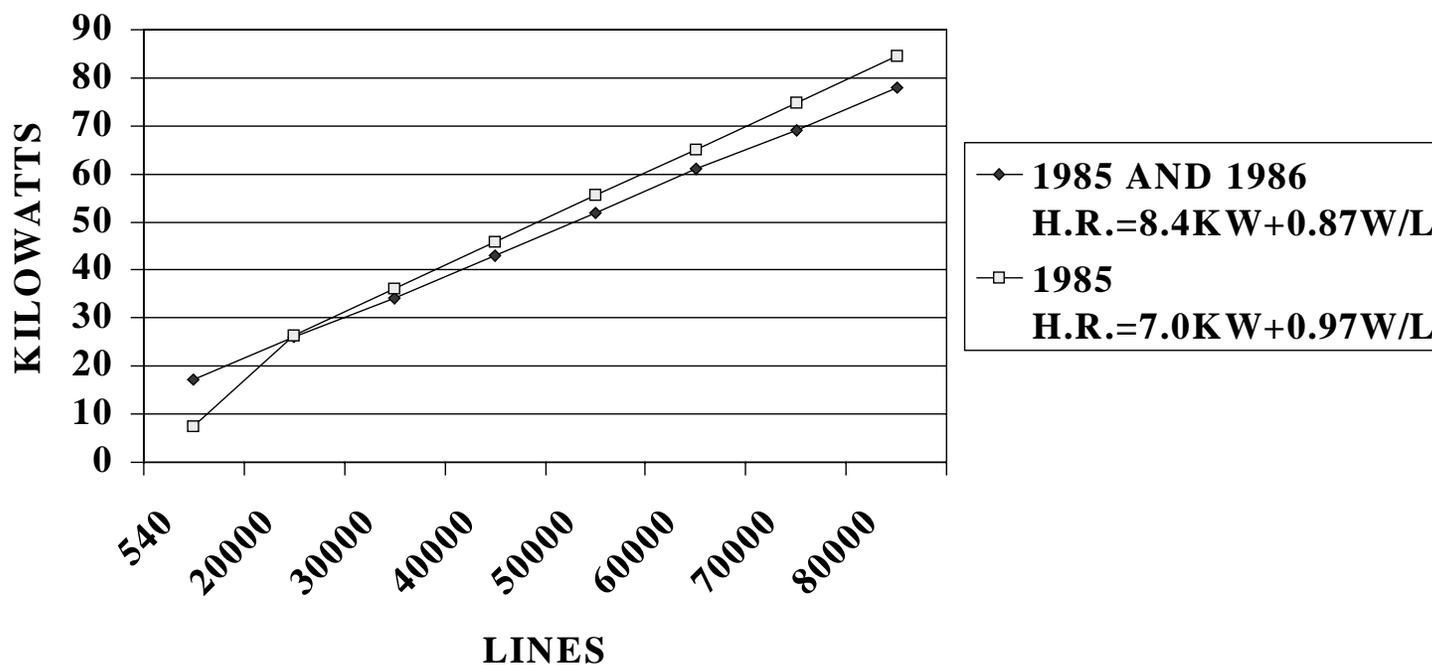
PART OF FS 2 5ESS OFFICE POWER UNIT Figure 2



Offices in Service 1985 and 1986
 Assumptions: <4.0 CCS/L
 8:1 C.R.
 NORMAL TRUNKING
 NO ISLU_s

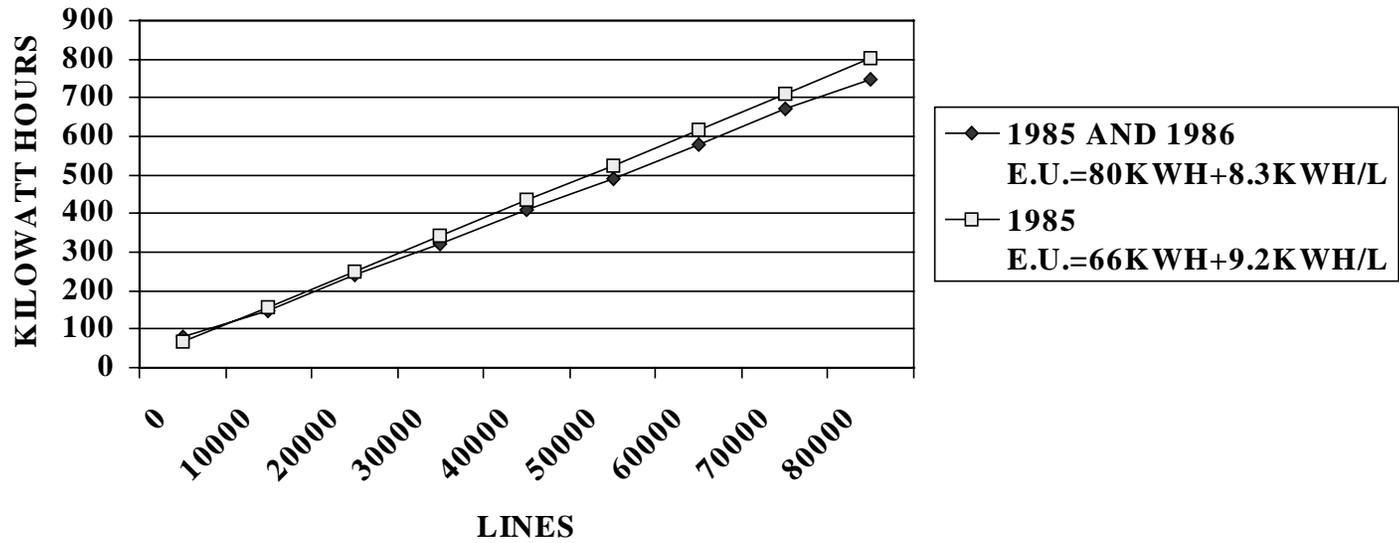
SHEET 7

PART OF FS 2 FIGURE 3



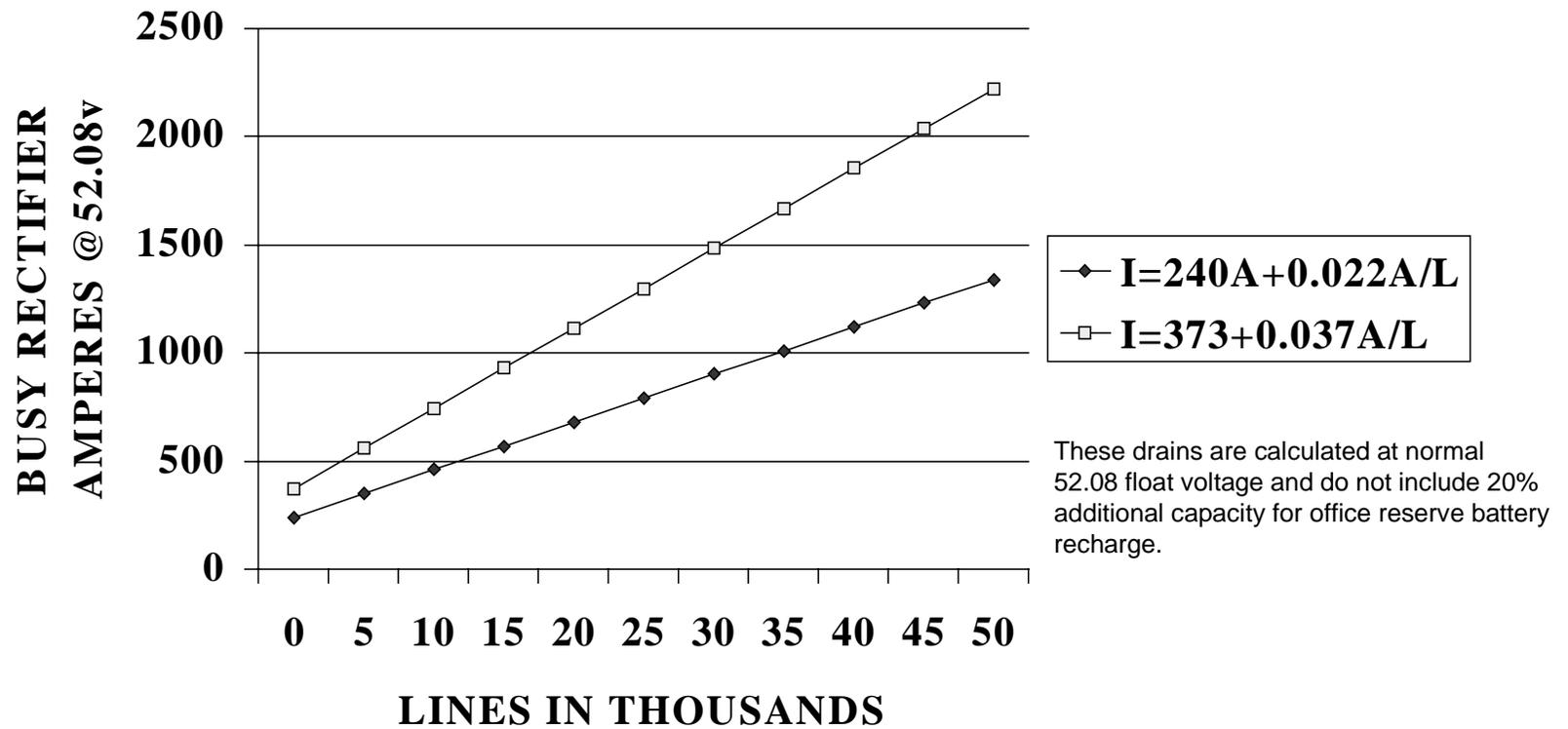
LINES
 Offices in Service 1985 and 1986, 8:1 C.R.
 Actual measured power input in working offices
 Assumptions: <4.0 CCS/L
 8:1 C.R.
 Normal Trunking
 No ISLUs

PART OF FS 2 5ESS ENERGY USAGE FIGURE 4



Offices in Service 1985 and 1986, 8:1 C.R.
 Actual working offices (E.U. not measured)
 Assumptions: <4.0 CCS/L
 8:1 C.R.
 Normal Trunking
 No ISLUs

PART OF FS 2 FIGURE 5



Estimated System Busy Hour current input 6:1 & 4:1 concentration ratio.

PART OF FS 2

FIGURE 6

THESE DRAINS ARE CALCULATED AT
NORMAL 52.08V FLOAT VOLTAGE AND
DO NOT INCLUDE 20% ADDITIONAL
CAPACITY FOR OFFICE RESERVE
BATTERY RECHARGE (NO ISLUS)

(5A) 1 RSM $I=27A+0.01A/L$

(5B) 2 RSMS $I=47A+0.01A/L$

(5B) 3 RSMS $I=67A+0.01A/L$

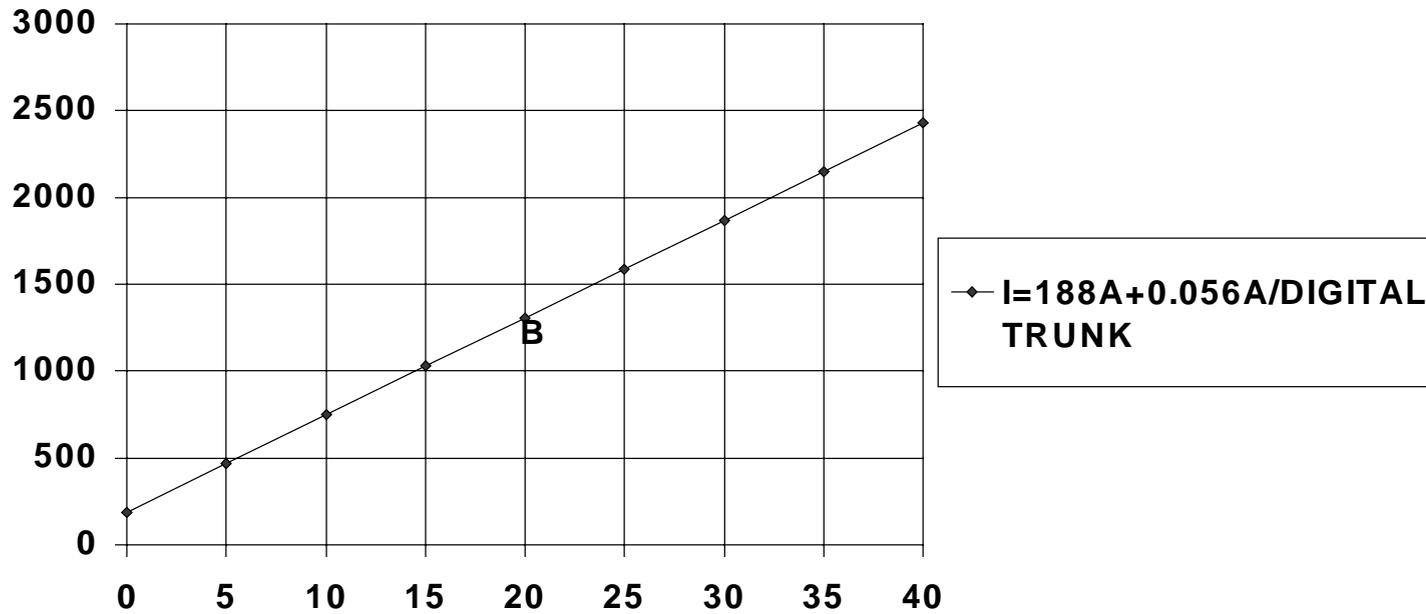
(5B) 4 RSMS $I=87A+0.01A/L$

(5B) 5 RSMS $I=107A+0.01A/L$

WHERE L IS THE TOTAL NUMBER
OF LINES IN THE INSTALLATION
(NOT JUST IN EACH SWITCHING
MODULE)

PART OF FS 2 FIGURE 7

BUSY HOUR RECTIFIER AMPERES @ 52.08V

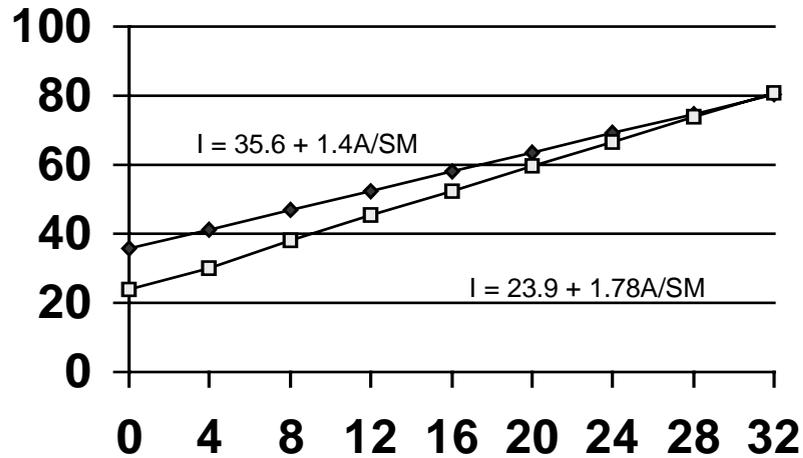


DIGITAL TRUNKS IN THOUSANDS
5ESS TOLL ONLY OFFICES BUSY HOUR CURRENT INPUT

PRELIMINARY ESTIMATE
USING DIGITAL TRUNKS ONLY
AND SINGLE BAY SWITCHING
MODULES ONLY

TOTAL AMPERES OF -48V FOR BUS 0 AND BUS 1

PART OF FS 2 FIGURE 8



THESE DRAINS ARE CALCULATED
AT NORMAL 52.08V FLOAT VOLTAGE

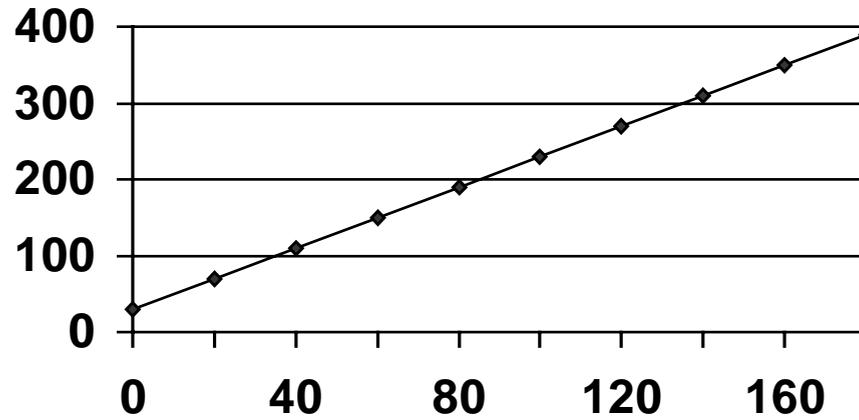
SWITCHING MODULES

Communication Module 2 Current Input (Single & Dual Fabric)

PART OF FS 2 FIGURE 9

These drains are calculated at normal 52.08v float voltage.

TOTAL AMPERES OF -48V FOR BUS 0 AND 1



SWITCHING MODULES

Communication Module 2 Input Current (Dual Fabric)

J-Drawing	Unit	Ckt Pack	Current Drain	Remarks
* preceding the J/ED dwg denotes the additions/ revisions.....				
ED5D141-10 L01	EXIT PILOT LIGHT		0.000	
ED5D141-10 L02	EXIT PILOT LIGHT		0.000	
ED5D141-10 L03	EXIT PILOT LIGHT		0.000	
ED5D141-10 L04	EXIT PILOT LIGHT		0.000	
ED5D039-35,G23	(NO G23)			
ED5D061-30,G1	BELTUNE		0.000	
ED5D522-32,G2			0.000	
ED5D678-10, G8A	Alarm & Status			
ED5D678-10, G10A	Alarm & Status		0.737	
*ED5D839-30 G10	ASM,Netra T1120 workstation		4.1 measured	
*ED5D876-30 2G40,20G50	MP(modem pool) 0 &1 GSM-IWF		15.600 measured	
*ED5D876-30 2 G20	EthernetSw Hub 0&1 GSM-IWF		3.930 measured	
*ED5D876-30 2 G10	Protocal Engine 0&1 GSM-IWF		7.300 measured	
*ED5D876-30 G210	Protocal Engine 0&1 GSM-IWF		3.650 measured	
*ED5D876-30 G220	EthernetSw Hub 0&1 GSM-IWF		1.967 measured	
*ED5D876-30 G270	ArcAccess card NAC &dual PCI ethernet GSM-IWF			
*ED5D876-30 G280	netwk mgmt cardNAC &dual ethernt auxNIC GSM-IWF			
*ED5D876-30 G290	quad v.34dig modNAC GSM-IWF			
*ED5D876-30 G300	quad dig/rs232 NIC GSM-IWF			
*ED5D876-30 G310	dualPrim rate NAC/NIC GSM-IWF			
*ED5D878-30 L1,L1A,L2 (Packet Driver Solution)	PacketDr Solution CBX500 ATM		22.4 measured	
*ED5D883-30 (Packet Driver Solution)	PacketDr Solution MAX-TNT WAN Access Sw		7.0 measured	
J1A042BP-L01	DTDA		0.260	
J1A042BP-L02	DTDA		0.000	
J1A042BP-LA	DTDA		0.000	

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J1C189	TBCU		
J1C121A-1 L01	13A Rec Ann.		0.650
J1C121A-1 L02	13A Rec Ann.		0.000
J1C121A-1 L40	13A Rec Ann.		
J1C121A-1 L50	13A Rec Ann.		0.130
J1C121A-1 L51	13A Rec Ann.		0.130
J1C121A-1 L52	13A Rec Ann.		0.130
J1C121A-1 L53	13A Rec Ann.		0.130
J1C121A-1 L54	13A Rec Ann.		0.130
J1C121A-1 L55	13A Rec Ann.		0.130
J1C121A-1 L56	13A Rec Ann.		0.130
J1C121A-1 L57	13A Rec Ann.		0.130
J1C121A-1 L60	13A Rec Ann.		0.130
J1C121A-1 L61	13A Rec Ann.		0.130
J1C121A-1 L62	13A Rec Ann.		0.130
J1C121A-1 L63	13A Rec Ann.		0.130
J1C121A-1 L64	13A Rec Ann.		0.130
J1C121A-1 L65	13A Rec Ann.		0.130
J1C121A-1 L66	13A Rec Ann.		0.130
J1C121A-1 L67	13A Rec Ann.		0.130
J1C121A-1 L70	13A Rec Ann.		0.074
J1C121A-1 L71	13A Rec Ann.		0.074
J1C121A-1 L72	13A Rec Ann.		0.074
J1C121A-1 L73	13A Rec Ann.		0.074
J1C121A-1 L74	13A Rec Ann.		0.074
J1C121A-1 L75	13A Rec Ann.		0.074
J1C121A-1 L76	13A Rec Ann.		0.074
J1C121A-1 L77	13A Rec Ann.		0.074
J1C121A-1 LA	13A Rec Ann.		0.000
J1C121A-1 LB	13A Rec Ann.		0.000
J1C121A-1 LC	13A Rec Ann.		0.000
J1C121A-1 LD	13A Rec Ann.		0.000
J1C121A-1 LE	13A Rec Ann.		0.000
J1C121A-1 LF	13A Rec Ann.		0.000
J1C121A-1 LG	13A Rec Ann.		0.000
J1C121A-2 L1	13A Rec Ann	(UD12,UD11 UD13)	0.16/pack
J1C121A-2 L40	13A Rec Ann	(UD14)	0.034/pack
J1C121A-2 L50	13A Rec Ann	(UD15)	0.034/pack
J1C121A-2 L60	13A Rec Ann	(UD16)	0.034/pack
J1C121A-2 L70	13A Rec Ann	(UD17)	0.034/pack
J1C129AA-1 L01	DMA		0.000
J1C129AA-1 L02	DMA		3.540
J1C129AA-1 L03	DMA		0.890
J1C129AA-1 L04	DMA		
J1C129AA-1 L05	DMA		
J1C129AA-1 L06	DMA		
J1C129AA-1 L07	DMA		
J1C129AA-1 L08	DMA		
J1C129AA-1 L0A	DMA		
J1C129AB-1 L01	CC		7.800

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J1C129AB-1 L02	CC	
J1C129AB-1 L03	CC	0.890
J1C129AB-1 L04	CC	1.810
J1C129AB-1 L05	CC	
J1C129AB-1 L06	CC	
J1C129AB-1 L07	CC	0.650
J1C129AB-1 L08	CC	
J1C129AB-1 L09	CC	
J1C129AB-1 L10	CC	
J1C129AB-1 L11	CC	
J1C129AB-1 L12	CC	
J1C129AB-1 L13	CC	0.400
J1C129AB-1 LA	CC	
J1C129AB-1 LB	CC	0.000
J1C129AB-1 LC	CC	0.000
J1C129AC-1 L01	MAS 0	1.880
J1C129AC-1 L02	MAS 0	
J1C129AC-1 L03	MAS 0	
J1C129AC-1 L04	MAS 0	0.000
J1C129AC-1 L05	MAS 0	
J1C129AC-1 L06	MAS 0	0.310
J1C129AC-1 LA	MAS 0	
J1C129AC-1 LB	MAS 0	
J1C129AD-1 L01	MAS 1	1.330
J1C129AD-1 L02	MAS 1	
J1C129AD-1 L03	MAS 1	
J1C129AD-1 L04	MAS 1	0.000
J1C129AD-1 L05	MAS 1	
J1C129AD-1 L06	MAS 1	0.310
J1C129AD-1 LA	MAS 1	
J1C129AD-1 LB	MAS 1	
J1C129AE-1 L01	POWER	10.000
J1C129AE-1 LA	POWER	0.000
J1C129AE-1 LB	POWER	0.000
J1C129AE-1 LC	POWER	0.000
J1C129AF-1 L01	COOL	1.150
J1C129AF-1 LA	COOL	0.000
J1C129AF-1 LB	COOL	0.000
J1C130AC-1 L01	DFC	4.490
J1C130AC-1 L02	DFC	0.000
J1C130AC-1 L03	DFC	0.100
J1C130AC-1 L04	DFC	0.120
J1C130AC-1 L05	DFC	0.000
J1C130AC-1 LWA	DFC	0.000
J1C130AC-1 LWB	DFC	0.000
J1C130AC-1 LWC	DFC	0.000
J1C130AC-1 LWD	DFC	0.000
J1C130BA-1 L01	IOP BA	2.380
J1C130BA-1 L02	IOP BA	0.060
J1C130BA-1 L03	IOP BA	0.000
J1C130BB-1 L01	IOP GR	0.060

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J1C130BB-1 L02	IOP GR		0.060	
J1C130BB-1 L03	IOP GR		0.000	
J1C130BB-1 L04	IOP GR		0.510	
J1C130BB-1 L05	IOP GR		0.330	
J1C130BC-1	PORT SW		0.040	
J1C131AA-1 L01	DI CON			
J1C134B-1 L01	HSTF STAND-BY (used for 5E DOPS)		0.000	
J1C134B-1 L01	HSTF ACTIVE		8.230	
J1C134B-1 L02	HSTF STAND-BY (used for 5E DOPS)		0.000	
J1C134B-1 L02	HSTF ACTIVE		8.230	
J1C147BA	CPU			
J1C147BB	MS, IOP			
J1C147BC-1	MS,IOP			
J1C147BD-1	IOP,BAS			
J1C161BB-1	BASIC IOP			
J1C161BC-1	GROWTH IOP			
J1C176C1-L22	SCSI DISK DRIVE		8.00/feeder (4 SCSI drives)	
J1C194A-1 L02	14A Rec Ann		0.160	
J1C194A-1 L08	14A Rec Ann		0.030	
J1C194A-1 L10	14A Rec Ann		0.160	
J1C194A-1 L51 - L84	14A Rec Ann		0.000	
J1C218AA-1 L01	TFIU			
J1C219AA-1 L01	NAIU			
J1C259A-1 L52	13A/14A RRU		0.125	
J1C267A-1 L01	15A Rec Ann	(shelf)	0.000	
J1C267A-1 L02	15A Rec Ann	(BLD1)	0.130/pack	
J1C267A-1 L03	15A Rec Ann	(BLD2)	0.132/pack	
J1C267A-1 L5	15A Rec Ann	(400A)	0.134/pack	
J1C267A-1 L1 1	15A Rec Ann	(shelf)	0.000	
J1C267A-1 L12	15A Rec Ann	(BLD3)	130/pack (Includes 400B)	
J1C267A-1 L14	15A Rec Ann	(BLD4)	134/pack (Includes 400B)	
J1C267A-1 L15	15A Rec Ann	(BLD5)	134/pack (Includes 400B)	
J1C267A-1 L20	15A Rec Ann	(BLD20)	134/pack (Includes 400B)	
J1C267A-1 L21	15A Rec Ann	(BLD21)	134/pack (Includes 400B)	
J1C267A-1 L22	15A Rec Ann	(BLD22)	134/pack (Includes 400B)	
J1C267A-1 L23	15A Rec Ann	(BLD23)	134/pack (Includes 400B)	
J1C273A-1 L1 #	16A Rec Ann	BLD10		
J1C273A-1 L2 #	16A Rec Ann	BLD3		
J1C273A-1 L3 #	16A Rec Ann	400B		
# when order 16A always e/w 1 L1+3 L2 +3 L3				
J1C273A-1 L11 always e/w 1 BLD10, 3 BLD3, 3 400B	16A Rec Ann	1 BLD10,3 BLD3, 3 400B	0.740	
*J1C275A-1 L5 always e/w 1 TN1881,TN1882,TN1875, 506A alarm module	17A Rec Ann	TN1881,TN1882	0.920	h.f 8/99

TN1875, 506A

J1P023AM-1ALL	DCTU	3PMU	2.000
J1P023AM-1 ALL	DCTU	6PMU	2.830
J1P023AM-1 ALL	DCTU	9PMU	3.000
J3F010CA-1 L01	CNI		0.000
J3F010CB-1 L01	CNI		0.000
J3F010CC-1 L01	CNI		
J3F010CD-1 L01	CNI		
J3F010CE-1 L01	CNI		
J3F010CF-11,01	CNI		
J3F010CG-1 L01	CNI		0.000
J3F010HA-1 L4	DFAC	TF9	0.500
J3F010HA-1 L5	DFAC	TF10	0.500
J3F011AA-1 L01	CNI INTER		2.650
J3F011AA-1 L02	CNI INTER		0.000
J3F011AA-1 L03	CNI INTER		0.000
J3F011AA-1 L04	CNI INTER		0.000
J3F011AA-1 L05	CNI INTER		0.000
J3F011AA-1 LA	CNI INTER		0.000
J3F011AA-1 LB	CNI INTER		0.000
J3F011AA-1 LC	CNI INTER		0.000
J3F011AA-1 L,D	CNI INTER		0.000
J3F011AA-1 LE	CNI INTER		0.000
J3F011AB-1 L01	CNI INTER		1.800
J3F011AC-1 L0	CNI INTER		1.800
J3F011GC-1 L2,3,4,5,6,7,8,9	8 Node IRN(Ring N)	UN304	0.620
J3F011GC-1 L10A,B,C,D,E,F	8 Node IRN(Ring N)	TN916	0.360
J3F011GC-1 L11A,B,C,D,E,F	8 Node IRN (Ring N)	TN917B	0.400
J3F011GC-1 L12A,B	8 Node IRN (Ring N)	TN1803	0.360
J3F011GC-1 L13	8 Node IRN (Ring N)	410AA	0.000
J3F011GD-1 L2,3,4,5,6	5 Node IRN (Ring N)	UN304	0.620
J3F011GD-1 L7,8	5 Node IRN (Ring N)	TN914	0.310
J3F011GD-1 L7,8	5 Node IRN (Ring N)	TN69B	0.480
J3F011GD-1 L8	5 Node IRN (Ring N)	TN1630B	0.360
J3F011GD-1 L10B,D,E	5 Node IRN(Ring N)	TN916	0.360
J3F011GD-1 L11B,D,E	5 Node IRN (Ring N)	TN917B	0.400
J3F011GD-1 L12	5 Node IRN(Ring N)	TN1803	0.360
J3F011GD-1 L13	5 Node IRN (Ring N)	410AA	0.000
J3F011GD-1 L15	5 Node IRN (Ring N)	407734391 bat ckt pack	0.036
J3H001EF-1 L01	DIST PT APP		0.480
J4A011AA-1 L01	DOC TRANS		0.720
J4A011AA-1 L02	DOCTRANS		0.720
J4A011AG-1 L01	43A1 CARR		0.180
J5D001AA-1 L01	TMCU		2.390
J5D001AA-1 LA	TMCU		0.000
J5D001AA-1 LB	TMCU		0.000
J5D001AB-1 L01	TMSU		0.970
J5D001AB-1 L02	TMSU		0.590
J5D001AB-1 L03	TMSU		0.340

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J5D001AB-1 L04	TMSU		0.590
J5D001AB-1 L05	TMSU		0.840
J5D001AB-1 L06	TMSU		0.890
J5D001AB-1 LA	TMSU		0.000
J5D001DA-1 L01	TMCU2		2.490
J5D001DB-1 L01	LTMSU		1.930
J5D001DB-1 L02	LTMSU		0.000
J5D001DB-1 L03	LTMSU		0.640
J5D001DB-1 L04	LTMSU		1.930
J5D001DB-1 L05	LTMSU		0.590
*J5D003AA-1 L01	MCU	2TN213,2TN272 2TN275B,2TN271	2.160
*J5D003AA-1 L02	MCU	2TN212,2TN213 2TN214	1.100
J5D003AA-1 L03	MCU		0.980
*J5D003AA-1 L04	MCU	2TN119,2TN117	0.860
J5D003AA-1 L05	MCU	491AA	0.000
J5D003AA-1 LA	MCU		0.000
*J5D003AA-1 LB	MCU	4 TN28	1.300
J5D003AA-2 L07	IMPU		0.440
J5D003AA-2 L08	IMPU		0.860
J5D003AA-2 L09	IMPU		0.300
J5D003AB-1 L01	TSIU		4.440
J5D003AB-1 L02	TSIU		1.260
J5D003AB-1 LA	TSIU		0.000
J5D003AB-1 LB	TSIU		0.100
J5D003AB-1 LC	TSIU		0.180
J5D003AB-1 LD	TSIU		0.000
J5D003AB-1 LE	TSIU		0.000
J5D003AB-1 LF	TSIU		0.160
J5D003AB-1 LG	TSIU		0.160
J5D003AB-1 LH	TSIU		0.000
J5D003AC-1 L01	TU	494A	0.000
J5D003AC-1 L0B	TU	494GB	0.000
J5D003AC-1 L01	TU	SN100	0.090
J5D003AC-1 L01	TU	SN101	0.150
J5D003AC-1 LF	TU	SN101B	0.140
J5D003AC-1 L02	TU	494A	0.000
J5D003AC-1 L0C	TU	494GB	0.000
J5D003AC-1 L02	TU	SN100	0.090
J5D003AC-1 L02	TU	SN101	0.150
J5D003AC-1 L0G	TU	SN101B	0.140
J5D003AC-1 L03	TU	SN102	0.110
J5D003AC-1 L04	TU	SN103	0.080
J5D003AC-1 L04A	TU	SN103B	0.170
J5D003AC-1 L05	TU	SN104	0.080
J5D003AC-1 L05A	TU	SN104B	0.030
J5D003AC-1 L06	TU	SN105	0.070
J5D003AC-1 L06A	TU	SN105B	0.030
J5D003AC-1 L07	TU	SN107	0.070

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J5D003AC-1 L08	TU	SN112	0.110	
J5D003AC-1 L08A	TU	SN112B	0.030	
J5D003AC-1 L09	TU	SN113	0.080	
J5D003AC-1 L09A	TU	SN113B	0.170	
J5D003AC-1 L10	TU	SN114	0.080	
J5D003AC-1 L10A	TU	SN 114B	0.030	
J5D003AC-1 L11	TU	SN115	0.070	
J5D003AC-1 L11A	TU	SN 115B	0.030	
J5D003AC-1, L12	TU	SN102B	0.100	
J5D003AC-1, L12A	TU	SN102C	0.100	
*J5D003AC-2, L1 L501	TU	494GB	0.000	Oct-99
*J5D003AC-2, L1A, 11	TU	494GC	0.000	Oct-99
*J5D003AC-2, L1,1A,12,502	TU	SN100	0.090	Oct-99
*J5D003AC-2, L2,504	TU	SN102B	0.100	Oct-99
*J5D003AC-2, L2A,2B,505	TU	SN102C	0.100	Oct-99
*J5D003AC-2,L3,506	TU	SN103	0.080	Oct-99
*J5D003AC-2, L3A,507	TU	SN103B	0.170	Oct-99
*J5D003AC-2, L4,508	TU	SN104	0.080	Oct-99
*J5D003AC-2, L4A,4B,509	TU	SN104B	0.030	Oct-99
*J5D003AC-2, L5,510	TU	SN105	0.070	Oct-99
*J5D003AC-2, L5A,511	TU	SN105B	0.030	Oct-99
*J5D003AC-2, L6,6A,512	TU	SN107	0.070	Oct-99
*J5D003AC-2, L7,513	TU	SN112	0.110	Oct-99
*J5D003AC-2, L7A,520	TU	SN112B	0.030	Oct-99
*J5D003AC-2, L8,514	TU	SN113	0.080	Oct-99
*5D003AC-2, L8A,515	TU	SN113B	0.170	Oct-99
*J5D003,AC-2. L9,516	TU	SN114	0.080	Oct-99
*J5D003AC-2, L9A,517	TU	SN114B	0.030	Oct-99
*J5D003AC-2, L10,518	TU	SN115	0.070	Oct-99
*J5D003AC-2, L10A,519	TU	SN115B	0.030	Oct-99
*J5D003AC-2, L503	TU	SN101B	0.140	Oct-99
J5D003AD-1 L01	DLTU	SN346	0.040	
J5D003AD-1 L02	DLTU	ANNI	0.330	
J5D003AD-1 L03	DLTU	ANN3	0.240	
J5D003AD-1 L04	DLTU	ANN5	0.290	
J5D003AD-1 L05	DLTU	ANN5B	0.290	
J5D003AD-1 LA	DLTU	SN215	0.000	
J5D003AD-1 LB	DLTU	SN216	0.000	
J5D003AD-1 LC	DLTU	SN217	0.000	
J5D003AD-1 LD	DLTU	SN218	0.000	
J5D003AD-1 LE	DLTU	SN219	0.000	
J5D003AD-1 LH	DLTU	ANN3B	0.240	
J5D003AD-1 LJ	DLTU	SN346B	0.010	
J5D003AD-1 L6	DLTU	ANN5C	0.290	
J5D003AD-1 L7	DLTU	ANN3	0.240	
J5D003AE-1 L1	DSU	495A	0.000	

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J5D003AE-1 LG,H	DSU	495FB	0.000	
J5D003AE-1 L2	DSU	495A	0.000	
J5D003AE-1 LG,J	DSU	495FB	0.000	
J5D003AE-1 L1	DSU	TN128	0.180	
J5D003AE-1 L2	DSU	TN128	0.180	
J5D003AE-1 L3	DSU	TN132	0.160	
J5D003AE-1 L4	DSU	TN130	0.260	
J5D003AE-1 L5	DSU	TN234	0.290	
J5D003AE-1 L6	DSU	TN303	0.240	
J5D003AE-1 L6,7	DSU	TN304	0.240	
J5D003AE-1 LE,F	DSU	TN304B	0.240	
J5D003AE-1 L8	DSU	TN892	0.150	
J5D003AE-1 L9	DSU	TN133	0.230	
J5D003AE-1 L10	DSU	TN841	0.260	
J5D003AE-1 L11	DSU	TN853	0.270	
J5D003AE-1 L12	DSU	TN1032	0.310	
J5D003AE-1 L13	DSU	TN130	0.260	
J5D003AE-1 L14	DSU	TN133	0.230	
J5D003AE-1 LK	DSU	TN133	0.230	
J5D003AE-1 LL	DSU	TN133	0.230	
J5D003AE-1 L15	DSU	TN1892		
J5D003AE-1 L16	DSU	TN130	0.260	
J5D003AE-1 LM,N	DSU	TN340B	0.150	
J5D003AE-1 L17	DSU	TN1637	0.180	
J5D003AE-1 L501	DSU	495A	0.000	
J5D003AE-1 L502	DSU	495FB	0.000	
J5D003AE-1 L503	DSU	TN128	0.180	
J5D003AE-1 L504	DSU	TN302	0.180	
J5D003AE-1 L505	DSU	TN303	0.240	
J5D003A.E-1 L506	DSU	TN304	0.240	
J5D003AE-1 L507	DSU	TN340B	0.150	
J5D003AE-1 L508	DSU	TN841	0.260	
J5D003AF-1	FAN		0.780	DA
J5D003AG-1 L01,1A	ATU E	494GB	0.000	
J5D003AG-1 L01	ATU E	SN384		
J5D003AG-1 L01A	ATU E	SN384B	0.050	
J5D003AG-1 L01,1A	ATU E	SN101B	0.140	
J5D003AG-1 L02,2A	ATU E	494GB	0.000	
J5D003AG-1 L02	ATU E	SN384		
J5D003AG-1 L2A	ATU E	SN384B	0.050	
J5D003AG-1 L02,2A	ATU E	SN101B	0.140	
J5D003AG-1 L03	ATU E	SN372	0.200	
J5D003AG-1 L04	ATU E	SN373	0.030	
J5D003AG-1 L05,C	ATU E	SN374	0.200	
J5D003AG-1 L06,E	ATU E	SN375	0.030	
J5D003AG-1 L07,B	ATU E	SN376	0.380	
J5D003AG-1 L08,B	ATU E	SN377	0.030	
J5D003AG-1 L09	ATU E	SN378	0.030	
J5D003AG-1 L10	ATU E	SN382	0.100	
J5D003AG-1 L11	ATU E	SN383		
J5D003AG-1 L12	ATU E	SN530		

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J5D003AG-1 L13	ATU E	SN531	
J5D003AG-1 L14	ATU E	SN532	
J5D003AG-1 L15	ATU E	SN533	
J5D003AG-1 L16	ATU E	SN534	
J5D003AG-1 L17	ATU E	SN535	
J5D003AG-1 L18	ATU E	SN536	
J5D003AG-1 L19	ATU E	SN537	
J5D003AG-1 L20	ATU E	SN538	
J5D003AG-1 L41	ATU E	SN639	
J5D003AG-1 LK	ATU E	SN384	
J5D003AG-1 LW	ATU E	SN384B	0.050
J5D003AG-1 L29	ATU E	SN606	
J5D003AG-1 LL	ATU E	SN384	
J5D003AG-1 LX	ATU E	SN384B	0.050
J5D003AG-1 L30	ATU E	SN607	
J5D003AG-1 L21	ATU E	SN600	
J5D003AG-1 L22	ATU E	SN601	
J5D003AG-1 L23	ATU E	SN602	
J5D003AG-1 L24	ATU E	SN603	
J5D003AG-1 L25	ATU E	SN605	
J5D003AG-1 L26	ATU E	SN609	
J5D003AG-1 L27	ATU E	SN613	
J5D003AG-1 L28	ATU E	SN615	
J5D003AG-1 L31	ATU E	SN560	
J5D003AG-1 L33	ATU E	SN712	
J5D003AG-1 L34	ATU E	SN714	
J5D003AG-1 L35	ATU E	SN715	
J5D003AG-1 L36	ATU E	SN716	
J5D003AG-1 L37	ATU E	SN717	
J5D003AG-1 L40	ATU E	SN638	
J5D003AG-1 L38	ATU E	SN720	
J5D003AG-1 L501	ATU E	494GB	0.000
J5D003AG-1 L502	ATU E	SN384	
J5D003AG-1 L503	ATU E	SN384B	0.050
J5D003AG-1 L504	ATU E	SN101B	0.140
J5D003AG-1 L505	ATU E	SN372	0.200
J5D003AG-1 L506	ATU E	SN373	0.030
J5D003AG-1 L507	ATU E	SN374	0.200
J5D003AG-1 L508	ATU E	SN375	0.030
J5D003AG-1 L509	ATU E	SN376	0.380
J5D003AG-1 L510	ATU E	SN377	0.030
J5D003AG-1 L511	ATU E	SN378	0.030
J5D03AG-1 L512	ATU E	SN382	0.100
J5D03AG-1 L513	ATU E	SN383	
J5D003AG-1 L514	ATU E	SN530	
J5D003AG-1 L515	ATU E	SN531	
J5D003AG-1 L516	ATU E	SN532	
J5D003AG-1 L517	ATU E	SN533	
J5D003AG-1 L518	ATU E	SN534	
J5D003AG-1 1519	ATU E	SN535	
J5D003AG-1 L520	ATU E	SN536	

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J5D003AG-1 L521	ATU E	SN537		
J5D003AG-1 L522	ATU E	SN538		
J5D003AG-1 L523	ATU E	SN639		
J5D003AL-1 L01	MSU	TN136	0.140	
J5D003AL-1 L01	MSU	496A	0.000	
J5D003AL-1 L02	MSU	TN138	0.190	
J5D003AL-1 L03	MSU	TN220	0.190	
J5D003AL-1 L04	MSU	TN221	0.130	
J5D003AL-1 L07	MSU	TN330	0.360	
J5D003AL-1 L05	MSU	TN329	0.360	
J5D003AL-1 L06	MSU	TN328	0.360	
J5D003AL-1 L08	MSU	TN140	0.090	
J5D003AL-1 LB	MSU	TN329B	0.170	
J5D003AL-1 LC	MSU	TN328B	0.170	
J5D003AL-1 LD	MSU	TN330B	0.190	
J5D003AM-1 L01	FIU		0.000	
J5D003AP-1 L01	FIU		2.900	
J5D003AP-1 LA	FIU		0.000	
*J5D003AP-2 L02	FIU	2TN835,4TN619 4 TN834, 2 TN618	2.786	DA 9/99 DA 9/99
*J5D003AP-2 L03	FIU	2 TN618C	0.106	DA 9/99
*J5D003AP-2 L04	FIU	4 TN1039	0.600	DA 9/99
*J5D003AP-2 L05	FIU	2 TN618D	0.360	DA 9/99
*J5D003AP-2 L06	FIU	4 982TR connector	0.006	DA 9/99
*J5D003AP-2 LC	FIU	2 TN618B	0.360	DA 9/99
*J5D003AP-3 L07,07A	FIU3	2 TN1510, 4 TN619 2 TN618D	1.666	DA 9/99
*J5D003AP-3 L08,08A	FIU3	4 TN1039	0.600	DA 9/99
*J5D003AP-3 L11	FIU3	2 TN494LA	0.000	Sep-99
*J5D003AP-3 L12	FIU3	2 TN1510	0.380	Sep 99 cpsm
*J5D003AP-3 L13	FIU3	4 TN619	0.960	Sep 99 cpsm
*J5D003AP-3 L14	FIU3	4 TN1039	0.600	Sep 99 cpsm
*J5D003AP-3 L15	FIU3	2 TN618D	0.360	Sep 99 cpsm
*J5D003AP-3 L10, 16	FIU3	4 TN1802	0.960	Sep 99 cpsm
*J5D003AP-3 L502	FIU3	TN1510	0.190	Sep 99 cpsm
*J5D003AP-3 L503	FIU3	TN619	0.250	Sep 99 cpsm
*J5D003AP-3 L504	FIU3	TN1039	0.150	Sep 99 cpsm
*J5D003AP-3 L505	FIU3	TN618D	0.180	Sep 99 cpsm
*J5D003AP-3 L506	FIU3	TN1802	0.240	Sep 99 cpsm
J5D003AR-1 L01	DCLU		1.860	
J5D003AR-1 L02	DCLU		0.300	
J5D003AR-1 LA	DCLU		0.000	
J5D003AR-1 LB	DCLU		0.000	
J5D003AR-1 LC	DCLU		0.000	

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J5D003AR-1 LD	DCLU		0.000
J5D003AR-1 LE	DCLU		0.000
J5D003AR-1 LF	DCLU		0.000
J5D003AR-1 LG	DCLU		0.000
J5D003AS-1 L01	DCLUS		0.010
J5D003AS-1 L02	DCLUS		0.300
J5D003AS-1 LA	DCLUS		0.000
J5D003AS-1 LB	DCLUS		0.000
J5D003AS-1 LC	DCLUS		0.000
J5D003AS-1 LD	DCLUS		0.000
J5D003AS-1 LE	DCLUS		0.000
J5D003AS-1 LF	DCLUS		0.000
J5D003AS-1 LG	DCLUS		0.000
J5D003AT-1 L01	TSIU2 CR		5.520
J5D003AT-1 L02	TSIU2 CR		0.620
J5D003AU-1 ALL	FFU		0.000
J5D003AW-1 L01	PPMU	494LA	0.000
J5D003AW-1 L01	PPMU	TN996	0.240
J5D003AW-1 LA	PPMU	TN996B	
J5D003AW-1 LB	PPMU	TN996B	
J5D003AW-1 L02	PPMU	SN448	0.200
J5D003AW-1 L03	PPMU	SN449	0.040
J5D003AW-1 L04	PPMU	SN502	0.040
J5D003AW-1 L05	PPMU	SN709	
J5D003AW-1 L06	PPMU	SN732	0.200
J5D003AW-1 L501	PPMU	494LA	0.000
J5D003AW-1 L502	PPMU	TN996	0.240
J5D003AW-1 L503	PPMU	TN996B	
J5D003AW-1 L504	PPMU	TN996B	
J5D003AW-1 L505	PPMU	SN502	0.040
J5D003AW-1 L506	PPMU	SN448	0.200
J5D003AW-1 L507	PPMU	SN449	0.040
J5D003AW-1 L508	PPMU	SN709	
J5D003AW-1 L509	PPMU	SN732	0.200
J5D003AY-1 L01	SMPU2		2.880
J5D003AY-1 L02	SMPU2		0.420
J5D003AY-1 L03	SMPU2		0.300
J5D003AY-1 L04	SMPU2		0.000
J5D003AY-1 L05	SMPU2		0.000
J5D003AY-1 L06	SMPU2		0.000
J5D003AY-1 L07	SMPU2		2.100
J5D003AY-1 L08	SMPU2		1.200
J5D003AY-1 L09	SMPU2		0.400
J5D003AY-1 L10	SMPU2		0.000
J5D003AY-1 L11	SMPU2		0.000
J5D003AY-1 L12	SMPU2		0.000
J5D003AY-1 L13	SMPU2		0.000
J5D003AY-1 L14	SMPU2		0.000
J5D003AY-1 L15	SMPU2		0.000
J5D003AY-1 L16	SMPU2		0.000
J5D003AY-1 L17	SMPU2		0.000

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J5D003AY-1 L18	SMPU2		0.000
J5D003AY-1 L19	SMPU2		0.420
J5D003AY-1 L20	SMPU2		0.420
J5D003BA-1 L01	DLTUE	SN346	0.040
J5D003BA-1 L05	DLTUE	ANN6	0.230
J5D003BA-1 L06	DLTUE	ANN7	0.290
J5D003BA-1 L06A	DLTUE	ANN7	0.290
J5D003BA-1 L07	DLTUE	ANN8	0.209
J5D003BA-1 L07A	DLTUE	ANN8B	0.209
J5D003BA-1 L08	DLTUE	ANN9	0.286
J5D003BA-1 L08A	DLTUE	ANN9B	0.286
J5D003BA-1 L01A, F	DLTUE	SN346B	0.010
J5D003BA-1 L12	DLTUE	SN730	0.010
J5D003BA-1 LH	DLTUE	ANN7	0.290
J5D003BA-1 LJ	DLTUE	ANN9	0.290
J5D003BA-1 L09	DLTUE	ANN6B	0.170
J5D003BA-1 L10, 10A	DLTUE	ANN36	0.080
J5D003BA-1 L10B	DLTUE	ANN36B	0.080
J5D003BA-1 L24, 24A	DLTUE	ANN102	0.100
J5D003BA-1 L25, 25A	DLTUE	ANN103	0.110
J5D003BA-1 L520	DLTUE	SN346	0.040
J5D003BA-1 L521	DLTUE	SN346B	0.010
J5D003BA-1 L525	DLTUE	SN730	0.010
J5D003BA-1 L530	DLTUE	ANN6	0.230
J5D003BA-1 L531	DLTUE	ANN6B	0.170
J5D003BA-1 L532,53	DLTUE	ANN36	0.080
J5D003BA-1 L 534	DLTUE	ANN36B	0.080
J5D003BA-1 L540, 54	DLTUE	ANN7	0.290
J5D003BA-1 L542	DLTUE	ANN7B	0.290
J5D003BA-1 L545	DLTUE	ANN8	0.210
J5D003BA-1 L546	DLTUE	ANN8B	0.210
J5D003BA-1 L550, 551	DLTUE	ANN9	0.290
J5D003BA-1 L522	DLTUE	ANN9B	0.290
J5D003BA-1 L555,556	DLTUE	ANN102	0.100
J5D003BA-1 L560,561	DLTUE	ANN103	0.110
J5D003BB-1 L01	LDSUE		0.760
J5D003BB-1 L02	LDSUE		0.440
J5D003BB-1 LA	LDSUE		0.000
J5D003BC-1 L01	GDSUE	495GI	0.000
J5D003BC-1 L01	GDSUE	495FB	0.000
J5D003BC-1 L01	GDSUE	TN128	0.180
J5D003BC-1 L02	GDSUE	TN851	0.260
J5D003BC-1 L03	GDSUE	TN841	0.260
J5D003BC-1 L4,7,8,11,11A, L13,13A	GDSUE	TN896	0.180
J5D003BC-1 L4,7,8,11,11A, L13,13A	GDSUE	TN897	0.240
J5D003BC-1 L4,5,7	GDSUE	TN898	0.240
J5D003BC-1 L8,9,11	GDSUE.	TN898B	0.420
J5D003BC-1 L9A, 11A,13	GDSUE	TN898C	0.220

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L13A

J5D003BC-1 L04	GDSUE	TN899	0.180
J5D003BC-1 L06	GDSUE	TN1032	0.310
J5D003BC-1 L07, 08	GDSUE	TN899	0.180
J5D003BC-1 L10	GDSUE	TN1032	0.310
J5D003BC-1 L11, 11A	GDSUE	TN899	0.180
J5D003BC-1 L13, 13A	GDSUE	TN899B	0.170
J5D003BC-1 L502	GDSUE	495GI	0.000
J5D003BC-1 L503	GDSUE	495FB	0.000
J5D003BC-1 L504	GDSUE	TN128	0.180
J5D003BC-1 L505	GDSUE	TN851	0.260
J5D003BC-1 L506	GDSUE	TN841	0.260
J5D003BC-1 L507	GDSUE	TN896	0.180
J5D003BC-1 L508	GDSUE	TN897	0.240
J5D003BC-1 L509	GDSUE	TN898	0.240
J5D003BC-1 L510	GDSUE	TN898B	0.420
J5D003BC-1 L511	GDSUE	TN898C	0.220
J5D003BD-1 L1	MMSU	494L1	0.000
J5D003BD-1 LF	MMSU	494LA	0.000
J5D003BD-1 L10	MMSU	TN138	0.190
J5D003BD-1 L2	MMSU	TN879	0.130
J5D003BD-1 LL	MMSU	TN879B	0.370
J5D003BD-1 L3	MMSU	TN138	0.190
J5D003BD-1 L4	MMSU	TN220B	0.900
J5D003BD-1 L5	MMSU	TN221	0.130
J5D003BD-1 L7	MMSU	TN330	0.360
J5D003BD-1 L8	MMSU	TN329	0.360
J5D003BD-1 L9	MMSU	TN328	0.360
J5D003BD-1 L6	MMSU	TN880	0.100
J5D003BD-1 L11	MMSU	TN1040	0.040
J5D003BD-1 L20	MMSU	TN1422	0.310
J5D003BD-1 LH	MMSU	TN330B	0.340
J5D003BD-1 LJ	MMSU	TN329B	0.170
J5D003BD-1 LK	MMSU	TN328B	0.340
J5D003BD-1 L13	MMSU	TN1538	0.340
J5D003BD-1, L14	MMSU	TN1613	0.340
J5D003BD-1, L15	MMSU	TN1539	0.340
J5D003BD-1,L16	MMSU	TN1614	0.190
J5D003BD-1 L17	MMSU	TN1540	0.190
J5D003BD-1 L18	MMSU	TN1615	0.190
J5D003BD-1 L19	MMSU	TN1636	0.190
J5D003BD-1 L502	MMSU	494L1	0.000
J5D003BD-1 L503	MMSU	494LA	0.000
J5D003BD-1 L504,528	MMSU	TN138	0.190
J5D003BD-1 L505	MMSU	TN879	0.130
J5D003BD-1 L506	MMSU	TN879B	0.370
J5D003BD-1 L507	MMSU	TN220B	0.900
J5D003BD-1 L508	MMSU	TN221	0.130
J5D003BD-1 L509	MMSU	TN330	0.360
J5D003BD-1 L510	MMSU	TN330B	0.340
J5D003BD-1 L511	MMSU	TN329	0.360

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J5D003BD-1 L512	MMSU	TN329B	0.170	
J5D003BD-1 L513	MMSU	TN328	0.360	
J5D003BD-1 L514	MMSU	TN328B	0.170	
J5D003BD-1 L515	MMSU	TN880	0.100	
J5D003BD-1 L516	MMSU	TN1040	0.040	
J5D003BD-1 L529	MMSU	TN1422	0.310	
J5D003BE-1 L01	FANU		0.780	DA
J5D003BE-1 L02	FANU		0.780	DA
J5D003BE-2 L4A	Fan-3		0.750	
J5D003BG-1 L01	DSU2	CR	0.530	
J5D003BG-1 L02	DSU2	CR	0.530	
J5D003BG-1 L03	DSU2	CR	0.820	
J5D003BH-1 L01	MEM	EYP	0.000	
J5D003BH-1 L02	MEM	EXP	0.420	
J5D003BH-1 L03	MEM	EXF	0.400	
J5D003BH-1 L04	MEM	EXIP	0.420	
J5D003BH-1 LH	MEM	EXP	0.400	
J5D0 03BJ-2 L01	FUSEXILTER		0.000	
J5D003BJ-2 L02	FUSEXILTER		0.000	
J5D003BL-1 L02	PSU	UN192	0.700	
J5D003BL-1 L01	PSU	UN192	0.700	
J5D003BL-1 L03	PSU	TN1083	0.190	
J5D003BL-1 L03A	PSU	TN1083B	0.190	
J5D003BL-1 L03B	PSU	TN1083C	0.180	
J5D003BL-1 L04	PSU	TNI082	0.330	
J5D003BL-1 LAT	PSU	TN1082	0.330	
J5D003BL-1 LBG	PSU	TN1082B	0.470	
J5D003BL-1 L05	PSU	TN1366	0.630	
J5D003BL-1 L06	PSU	TN1081	0.700	
J5D003BL-1 L06A	PSU	TN1081B	0.640	
J5D003BL-1 L07	PSU	TN1082	0.330	
J5D003BL-1 LAU	PSU	TN1082	0.330	
J5D003BL-1 LBJ	PSU	TN1082B	0.470	
J5D003BL-1 L08	PSU	UN192	0.700	
J5D003BL-1 L10B,10C	PSU	TN1366B	0.760	
J5D003BL-1 LK	PSU	TN1366	0.630	
J5D003BL-1 L11	PSU	UN192	0.700	
J5D003BL-1 L11A,IIB	PSU	UN192B	0.720	
J5D003BL-1 L11C	PSU	UN192D	0.720	
J5D003BL-1 LS,T	PSU	UN192	0.700	
J5D003BL-1 LBH	PSU	UN192B	0.720	
J5D003BL-11-Y.,Y	PSU	TN1081	0.700	
J5D003BL-1 L12,12A,12B	PSU	TN1367	0.730	
J5D003BL-1 L12C	PSU	TN1367B	0.800	
J5D003BL-1 L12D	PSU	TN1367C	0.600	
J5D003BL-1 L13	PSU	TN1371	0.680	
J5D003BL-1 L13A	PSU	TN1371B	0.800	
J5D003BL-1 L13B	PSU	TN1371C	0.500	
J5D003BL-1 LBC	PSU	TN1366	0.630	
J5D003BL-1 L14	PSU	UN348	0.800	
J5D003BL-1IL14A	PSU	UN348B	0.800	

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J5D003BL-1 LC1	PSU	TN1366	0.630
J5D003BI-1 LCM	PSU	TN1367	0.730
J5D003BL-1 LCN	PSU	TN1371	0.680
J5D003BL-1 LCP	PSU	UN348	0.800
J5D003BL-1 LCQ	PSU8	UN192B	0.720
J5D003BL-1 L15,15A	PSU	TN1846	0.740
J5D003BL-1IL16,16A	PSU	TN1848	0.740
J5D003BL-1 L17	PSU	UN399	0.800
J5D003BL-1 L501,510,516	PSU	UN192	0.700
J5D003BL-1IL502	PSU	TN1083	0.190
J5D003BL-1 L503	PSU	TN1083B	0.190
J5D003BL-1 L504	PSU	TN1083C	0.180
J5D003BL-1 L505	PSU	TN1082	0.330
J5D003BL-1 L50	PSU	TN1366	0.630
J5D003BL-1 L507	PSU	TN1081	0.700
J5D003BL-1 L508	PSU	TN1081B	0.640
J5D003BL-1 L509	PSU	TN1082	0.330
J5D003BL-1IL512,513	PSU	TN1366	0.630
J5D003BL-1 L514,515	PSU	TN1366B	0.760
J5D003BL-1 L517,518	PSU	UN192B	0.720
J5D003BL-1 L519,520,521	PSU	TN1367	0.730
J5D003BL-1 L522	PSU	TN1367B	0.800
J5D003BL-1 L523	PSU	TN1367C	0.600
J5D003BL-1 L524	PSU	TN1371	0.680
J5D003BL-1 L525	PSU	TN1371B	0.800
J5D003BL-1 L526	PSU	TN1371C	0.500
J5D003BL-1 L527	PSU	TN348	0.800
J5D003BL-1 L528	PSU	UN348B	0.800
J5D003BL-1 L529,547	PSU	TN1846	0.740
5D003BL-1 L530	PSU	TN1848	0.740
J5D003BL-1 L531	PSU	UN192	0.700
J5D003BL-1 L532	PSU	TN1366	0.630
J5D003BL-1 L533,534	PSU	UN192	0.700
J5D003BL-1 L535,536,546	PSU	TN1081	0.700
J5D003BL-1 L537,538	PSU	TN1082	0.330
J5D003BL-1 L539,543,545	PSU	TN1366	0.630
J5D003BL-1 L540,542	PSU	TN1082B	0.470
J5D003BL-1 L541,544	PSU	UN192B	0.720
J5D003BL-1 L548	PSU	UN399	0.800
J5D003BL-1 L518A	PSU	UN192D	0.720
J5D003BL-1 L530A	PSU	TN1848	0.740
J5D003BN-1 L01	FAN-6		2.870
J5D003BN-2 L1	Fan-6		2.00 <25C deg 3.00 >35C deg
J5D003BY-1 L2	PSU2	(TN1843)	0.625
J5D003BY-1 L3	PSU2	(UN396)	0.530
J5D003BY-1 L4	PSU2	(UN399)	0.800
J5D003BY-1 L5	PSU2	(TN1846) PH4	0.580
J5D003BY-1 L6	PSU2	(TN1844)	0.530
J5D003BY-1 L7	PSU2	(TN1845)	0.960
J5D003BY-1 L7A	PSU2	(TN1845)	0.960

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J5D003BY-1 L8	PSU2	(BKE1)	0.043	
J5D003BY-1 L9	PSU2	(UN192D)	0.720	
J5D003BY-1 L10	PSU2	(TN1856)	0.540	
J5D003BY-1 L10A	PSU2	(TN1856)	0.540	
J5D003BY-1 L11	PSU2	(TN1367C) PH3	0.740	
J5D003BY-1 L12	PSU2	(TN1371C)	0.500	
J5D003BY-1 L13	PSU2	(TN1862)	0.520	
*J5D003BY-1 L14	PSU2	(UN592)	0.280	Nov-99
*J5D003BY-1 L14C	PSU2	UN592B	0.280	Nov-99
J5D003BY-1 L15	PSU2	TN982	0.080	
J5D003BY-1 L16	PSU2	TN1863 (PH4)	0.560	
*J5D003BY-1 L17	PSU2	TN1848(PH6)	0.740	
*J5D003BY-1 L18	PSU2	TN1873(PH22)	1.060	
J5D003EA-1 L02	DSU2	TN833	0.470	
J5D003EA-1 L02A	DSU2	TN833C	0.610	
J5D003EA-1 L03	DSU2	TN833	0.470	
J5D003EA-1 L03A	DSU2	TN833C	0.610	
J5D003EA-1 L04	DSU2	TN833	0.470	
J5D003EA-1 L04A,4B	DSU2	TN833C	0.610	
J5D003EA-1 L04,4A,4B	DSU2	TN1053	0.150	
J5D003EA-1 L05	DSU2	TN833	0.470	
J5D003EA-1 L05A	DSU2	TN833C	0.610	
J5D003EA-1 L06	DSU2	TN833	0.470	
J5D003EA-1 L06A	DSU2	TN833C	0.610	
J5D003EA-1 L0A,8	DSU2	TN833	0.470	
J5D003EA-1 L08A	DSU2	TN833C	0.610	
J5D003EA-1 L08,8A	DSU2	TN1634	1.000	
J5D003EA-1 L09,C	DSU2	TN1635	0.480	
*J5D003EA-1 L10	DSU2	TN1053	0.150	
J5D003EA-1 L10,24	DSU2	TN833	0.470	
J5D003EA-1 L24A	DSU2	TN833C	0.610	
J5D003EA-1 L11,11A	DSU2	TN1053	0.150	
J5D003EA-1 L11	DSU2	TN833	0.470	
J5D003EA-1 L11A	DSU2	TN833C	0.610	
J5D003EA-1 L12	DSU2	TN1053	0.150	
J5D003EA-1 L12	DSU2	TN833	0.470	
J5D003EA-1 L13	DSU2	TN1053	0.150	
J5D003EA-1 L13	DSU2	TN833	0.470	
J5D003EA-1 L13	DSU2	TN1054	0.110	
J5D003EA-1 L14,14A	DSU2	TN1053	0.150	
J5D003EA-1 L14	DSU2	TN833	0.470	
J5D003EA-1 L14A	DSU2	TN833C	0.610	
J5D003EA-1 L15,15A	DSU2	TN1054	0.110	
J5D003EA-1 L17,20	DSU2	TN1053	0.150	
J5D003EA-1 L18	DSU2	TN1054	0.110	
J5D003EA-1 L19	DSU2	TN833	0.470	
J5D003EA-1 L19A	DSU2	TN833C	0.610	
J5D003EA-1 LE	DSU2	TN1053	0.150	
J5D003EA-1 L21,22	DSU2	TNI053	0.150	
J5D003EA-1 L23,25,26,27	DSU2	TN1054	0.110	

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J5D003EA-1 L28	DSU2	TN1053	0.150
J5D003EA-1 L200	DSU2	TN1841	0.570
J5D003EA-1 L201	DSU2	TN1842	0.060
J5D003EA-1 L202	DSU2	WP92824L1	0.010
J5D003EA-1 L203	DSU2	WP92824L1	0.010
J5D003EA-1 L203A	DSU2	WP92824L1	0.010
J5D003EA-1 L203B	DSU2	WP92824L1	0.010
J5D003EA-1 L204	DSU2	WP92824L1	0.010
J5D003EA-1 L205	DSU2	WP92824L1	0.010
J5D003EA-1 L206	DSU2	WP92824L1	0.010
J5D003EA-1 L207	DSU2	WP92824L1	0.010
J5D003EA-1 L208	DSU2	WP92824L1	0.010
J5D003EA-1 L208A	DSU2	WP92824L1	0.010
J5D003EA-1 L209	DSU2	WP92824L2	0.010
J5D003EA-1 L210	DSU2	WP93074M	0.010
J5D003EA-1 L211	DSU2	WP92824L2	0.010
J5D003EA-1 L212	DSU2	WP92824L1	0.010
J5D003EA-1 L213	DSU2	WP92824L1	0.010
J5D003EA-1 L214	DSU2	WP92824L1	0.010
*J5D003EA-1 L215,215A	DSU2	WP92824L1	0.010
J5D003EA-1 L501	DSU2	TN833	0.470
J5D003EA-1 L501A	DSU2	TN833C	0.610
J5D003EA-1 L502	DSU2	TN833	0.470
J5D003EA-1 L502A	DSU2	TN833C	0.610
J5D003EA-1 L503,503A	DSU2	TN1053	0.150
L503B			
J5D003EA-1 L504	DSU2	TN833	0.470
J5D003EA-1 L504A	DSU2	TN833C	0.610
J5D003EA-1 L505,505A	DSU2	TN833	0.470
J5D003EA-1 L505B	DSU2	TN833C	0.610
J5D003EA-1 L506,506A	DSU2	TN1634	1.000
J5D003EA-1 L507	DSU2	TN1635	0.480
J5D003EA-1 L507A,507B,	DSU2	TN1635	0.480
L507C			
J5D003EA-1 L508,508A,508B	DSU2	TN1053	0.150
L508C			
J5D003EA-1 L509,509A,510	DSU2	TN1053	0.150
L510A			
J5D003EA-1 L511,511A	DSU2	TN1054	0.110
L511B			
J5D003EA-1 L512,512A	DSU2		0.150
J5D003EA-1 L513	DSU2		0.110
J5D003EA-1 L514	DSU2		0.470
J5D003EA-1 L514A	DSU2	TN833C	0.610
J5D003EA-1 L515,515A	DSU2	TN1054	0.110
L515B			
J5D003EA-1 L516	DSU2	TN1053	0.150
J5D003EA-1 L518	DSU2	TN1841	0.570
J5D003EA-1 L519	DSU2	TN1842	0.060
J5D003EA-1 L520	DSU2	WP92824L1	0.010
J5D003EA-1 L521	DSU2	WP92824L1	0.010

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J5D003EA-1 L521A	DSU2	WP92824L1	0.010	
J5D003EA-1 L521B	DSU2	WP92824L1	0.010	
J5D003EA-1 L522	DSU2	WP92824L18	0.010	
J5D003EA-1 L523	DSU2	WP92824L1	0.010	
J5D003EA-1 L524	DSU2	WP92824L1	0.010	
J5D003EA-1 L525	DSU2	WP92824LI	0.010	
J5D003EA-1 L525A	DSU2	WP92824W	0.010	
J5D003EA-1 L526	DSU2	WP92824L2	0.010	
J5D003EA-1 L527	DSU2	WP93704L1	0.010	
J5D003EA-1 L528	DSU2	WP92824L2	0.010	
J5D003EA-1 L529	DSU2	WP92824L1	0.010	
J5D003EA-1 L530	DSU2	WP92824L1	0.010	
J5D003EA-1 L531	DSU2	WP92824L1	0.010	
J5D003EA-1 L532	DSU2	WP92824L2	0.010	
*J5D003EC-1 L01, L1A	MCTU	2 SN516,4 TN87 2 TN1086,2 TN1077 2 UN71B,2 TN875B 2 TN873,2 TN872 2 TN871, TN878 6 TN56	7.210	Aug-99
*J5D003EC-1 L02	MCTU		0.003	
*J5D003EC-1 L03	MCTU	2 UN71B	0.620	Aug-99
*J5D003EC-1 L04	MCTU	2 TN56	0.550	"
*J5D003EC-1 L06	MCTU	4 TN1129	0.840	"
*J5D003EC-1 L07	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L09	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L11	MCTU	2 TN874	0.500	"
*J5D003EC-1 L12	MCTU	2 TN874	0.500	":
*J5D003EC-1 L13	MCTU	2 TN874	0.500	"
*J5D003EC-1 L14	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L15	MCTU	2 TN871B	0.780	"
"	MCTU	2 TN875C	0.920	"
*J5D003EC-1 L16	MCTU	2 TN1042	1.120	"
*J5D003EC-1 L18	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L19	MCTU	4 TN1129B		
*J5D003EC-1 L20	MCTU	4 TN876B	0.840	"
*J5D003EC-1 L21	MCTU	2 TN1077B	0.400	"
*J5D003EC-1 L21A	MCTU	2 TN1077C	0.680	" t.r
*J5D003EC-1 L21B	MCTU	2 TN1077D	0.680	" t.r
*J5D003EC-1 L21C	MCTU	2 TN1077E	0.550	"
*J5D003EC-1 L22	MCTU	2 TN874	0.500	"
*J5D003EC-1 L23	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L24	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L26	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L27	MCTU	4 TN1377	0.840	"
*J5D003EC-1 L28	MCTU	4 TN1524	0.840	"
*J5D003EC-1 L29	MCTU	2 TN1527, 2 TN1533 2 TN1397	0.920 0.880	" " "

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*J5D003EC-1 L31	MCTU	6 TN2012	1.560	"
*J5D003EC-1 L32	MCTU	2 TN2012	0.520	"
*J5D003EC-1 L33	MCTU	2 TN875C	0.920	"
*J5D003EC-1 L34	MCTU	2 TN871B	0.780	"
J5D003EC-1 L35,L39,L41,L42	MCTU	2 TN874B	0.420	"
L43,L44,L45,L46		"	"	"
L50		"	"	"
*J5D003EC-1 L36	MCTU	2 TN1617		
*J5D003EC-1 L37	MCTU	2 TN874B	0.420	"
*J5D003EC-1 L47	MCTU	4 TN2012	1.040	"
*J5D003EC-1 LBN	MCTU	4 TN2012	1.040	"
*J5D003EC-1 LEC,LEG,LEJ	MCTU	2 TN1086B	0.760	"
*J5D003EC-1 LEM	MCTU	2 SN516B	0.240	"
*J5D003EC-1 LEP	MCTU	2 TN1042B	1.380	"
*J5D003EC-1 LEV	MCTU	2 SN516C	0.200	Aug-99
J5D003ED-1 L01	TRCU	494GB	0.000	
J5D003ED-1 L01	TRCU	TN1344	0.370	
J5D003ED-1 L01	TRCU	SN563	0.000	
J5D003ED-1 L02,2A,2B	TRCU	494GB	0.000	
J5D003ED-1 L02,2A,2B	TRCU	TN1344	0.370	
J5D003ED-1 L02,2A,2B	TRCU	SN563	0.000	
J5D003ED-2 L03	TRCU2	TN1345	0.540	
J5D003ED-2 L03A	TRCU2	TN1345B	0.540	
J5D003ED-2 L03,3A	TRCU2	494RA	0.000	
J5D003ED-2 L04,4A,4B,4C	TRCU2	TN1345	0.540	
J5D003ED-2 L04D	TRCU2	TN1345B	0.540	
J5D003ED-2 L05,5A	TRCU2	AKM3		
J5D003ED-2 L503	TRCU2	494RA	0.000	
J5D003ED-2 L504	TRCU2	TN1345	0.540	
J5D003ED-2 L506	TRCU2	AKM3		
J5D003EF-1 L3	TRCU3	BBF2B	0.150	
J5D003EF-1 L04	TRCU3	BBG8B	0.150	
J5D003EF-1 L5	TRCU3	BBG9	0.090	
J5D003EF-1 L06	TRCU3	2601A module	0.010	
J5D003EF-1 L7	TRCU3	22G3-U	0.120	
J5D003EF-1 L8	TRCU3	24G-U	0.180	
J5D003EF-1 L9	TRCU3	BNPI	0.180	
J5D003EF-1 L10	TRCU3	BNP2	0.190	
J5D003FD-1 L1,2,3,4,4A	MMSU-EI	494LA	0.000	
J5D003FD-1 L5,5A	MMSU-EI	494LA	0.000	
J5D003FD-1 L10	MMSU-EI	TN879	0.130	
J5D003FD-1 L11	MMSU-EI	TN879B	0.370	
J5D003FD-1 L5,5A	MMSU-EI	TN879B	0.370	
J5D003FD-1 L20	MMSU-EI	TN138	0.190	
J5D003FD-1 L30	MMSU-EI	TN220B	0.900	
J5D003FD-1IAO	MMSU-EI	TN221	0.130	
J5D003FD-1 L51	MMSU-EI	TN880	0.100	
J5D003FD-1 L60	MMSU-EI	TN138	0.190	
J5D003FD-1 L82	MMSU-EI	SN617	0.180	
J5D003FD-1 L130	MMSU-EI	SN617B	0.180	

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J5D003FD-1 L93	MMSU-EI	TN1400	0.140
J5D003FD-1 L102	MMSU-EI	SN619	0.040
J5D003FD-1 L113	MMSU-EI	SN631	0.120
J5D003FD-1 L122	MMSU-EI	SN616	0.150
J5D003FD-1 L131,131A	MMSU-EI	SN617B	0.180
J5D003FD-1 L122A	MMSU-EI	SN616B	0.150
J5D003FD-1 L140	MMSU-EI	TN1538	0.340
J5D003FD-1 L141	MMSU-EI	TN1613	0.340
J5D003FD-1 L142	MMSU-EI	TN1539	0.340
J5D003FD-1 L143	MMSU-EI	TN1614	0.190
J5D003FD-1 L144	MMSU-EI	TN1540	0.190
J5D003FD-1 L145	MMSU-EI	TN1615	0.190
J5D003FD-1 L146	MMSU-EI	TN1636	0.190
J5D003FD-1 L150	MMSU-EI	TN1422	0.310
J5D003FD-1 L201	MMSU-EI	494LA	0.000
J5D003FD-1 L202	MMSU-EI	TN879B	0.370
J5D003FD-1 L203	MMSU-EI	TN138	0.190
J5D003FD-1 L204	MMSU-EI	TN1422	0.310
J5D003FD-1 L518	MMSU-EI	494LA	0.000
J5D003FD-1 L520	MMSU-EI	TN879	0.130
J5D003FD-1 L521	MMSU-EI	TN879B	0.370
J5D003FD-1 L525,530	MMSU-EI	TN138	0.190
J5D003FD-1 L535	MMSU-EI	TN220B	0.900
J5D003FD-1 L540	MMSU-EI	TN221	0.130
J5D003FD-1 L545	MMSU-EI	TN880	0.100
J5D003FD-1 L555	MMSU-EI	TN1400	0.140
J5D003FD-1 L560	MMSU-EI	SN619	0.040
J5D003FD-1 L565	MMSU-EI	SN631	0.120
J5D003FD-1 L570	MMSU-EI	SN616	0.150
J5D003FD-1 L571	MMSU-EI	SN616B	0.150
J5D003FD-1 L575	MMSU-EI	TN1422	0.310
J5D003FC-1 L02	RCLK		0.850
J5D003FC-1 L04	RCLK		1.500
J5D003FF-1 L01,20	DLTU-R	(SN346B)	0.010
J5D003FF-1 LAF	DLTU-R	(SN730)	0.010
J5D003FF-1 LA	DLTU-R	(SN549)	0.000
J5D003FF-1 LB	DLTU-R	(SN550)	0.000
J5D003FF-1 LC	DLTU-R	(SN551)	0.000
J5D003FF-1 LD	DLTU-R	(SN552)	0.000
J5D003FF-1 LE	DLTU-R	(SN553)	0.000
J5D003FF-1 L10,10A	DLTU-R	(TN1319)	0.290
J5D003FF-1 L10B	DLTU-R	(TN1319B)	0.290
J5D003FF-1 L02	DLTU-R	(TN1306)	0.300
J5D003FF-1 L02A	DLTU-R	(TN1306B)	0.250
J5D003FF-1 L02B	DLTU-R	(TN1306B)	0.250
J5D003FF-1 L06	DLTU-R	(TN1307)	0.300
J5D003FF-1 L06A	DLTU-R	(TN1307B)	0.440
J5D003FF-1 L03	DLTU-R	(TN131 1)	0.290
J5D003FF-1 L03A	DLTU-R	(TN131 IB)	0.290
J5D003FF-1 L07	DLTU-R	(TN1312)	0.300
J5D003FF-1 L07A	DLTU-R	(TN1312B)	0.340

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J5D003FF-1 L07B	DLTU-R	(TN1312C)	0.340
J5D003FF-1 L04	DLTU-R	(TN1304)	0.290
J5D003FF-1 L08	DLTU-R	(TN1305)	0.300
J5D003FF-1 L05	DLTU-R	(TN1309)	0.300
J5D003FF-1 L05A	DLTU-R	(TN1309B)	0.300
J5D003FF-1 L09	DLTU-R	(TN1310B)	0.300
J5D003FF-1 L09A	DLTU-R	(TN1310B)	0.320
J5D003FF-1 L01	DLTU-R	(TN1310C)	0.320
J5D003FF-1 L0L	DLTU-R	(TN1306)	0.300
J5D003FF-1 L0M	DLTU-R	(TN131 1)	0.290
J5D003FF-1 LAA,N,AE	DLTU-R	(TN1304)	0.290
J5D003FF-1 LAB	DLTU-R	(TN1304B)	0.290
J5D003FF-11AC	DLTU-R	(TN1304C)	0.220
J5D003FF-1 LAD	DLTU-R	(TN1304C)	0.220
J5D003FF-1 LP	DLTU-R	(TN1309)	0.300
J5D003FF-1 LW,AA	DLTU-R	(TN1319)	0.290
J5D003FF-1 LR	DLTU-R	(TN1307)	0.300
J5D003FF-1 LS	DLTU-R	(TN1312)	0.300
J5D003FF-1 LT	DLTU-R	(TN1305)	0.300
J5D003FF-1 L8A,AD	DLTU-R	(TN1305)	0.300
J5D003FF-1 L8B	DLTU-R	(TN1305B)	0.430
J5D003FF-1 LV	DLTU-R	(TN1310)	0.300
J5D003FF-1 L21	DLTU-R	(T-N1410)	0.220
J5D003FF-1 L21A	DLTU-R	(TN1410B)	0.220
J5D003FF-1 L22	DLTU-R	(TN1411)	1.600
J5D003FF-1 L23	DLTU-R	(TN1410)	0.220
J5D003FF-1 L23A	DLTU-R	(TN1410B)	0.220
J5D003FF-1 L24	DLTU-R	(TN1411)	1.600
J5D003FF-1 L25	DLTU-R	(TN1306B)	0.250
J5D003FF-1 L25A	DLTU-R	(TN1306B)	0.250
J5D003FF-1 L26,26A	DLTU-R	(TN1304C)	0.220
J5D003FF-1 L28	DLTU-R	(TN1319B)	0.290
J5D003FF-1 L29	DLTU-R	(TN1410)	0.220
J5D003FF-1 L29A	DLTU-R	(TN1410B)	0.220
J5D003FF-1 L30	DLTU-R	(SN730)	0.010
J5D003FF-1 L33,31,32	DLTU-R	(TN1427)	0.220
J5D003FF-1 L546	DLTU-R	(SN346B)	0.010
J5D003FF-1 L547	DLTU-R	(SN730)	0.010
J5D003FF-1 L548	DLTU-R	(SN549)	0.000
J5D003FF-1 L549	DLTU-R	(SN550)	0.000
J5D003FF-1 L550	DLTU-R	(SN55 1)	0.000
J5D003FF-1 L551	DLTU-R	(SN552)	0.000
J5D003FF-1 L552	DLTU-R	(SN553)	0.000
J5D003FF-1 L553,554,555 L556	DLTU-R	(TN1319)	0.290
J5D003FF-1 L557	DLTU-R	(TN1319B)	0.290
J5D003FF-1 L558,559	DLTU-R	(TN1306)	0.300
J5D003FF-1 L560	DLTU-R	(TN1306B)	0.250
J5D003FF-1 L561,562	DLTU-R	(TN1307)	0.300
J5D003FF-1 L563	DLTU-R	(TN1307B)	0.440
J5D003FF-1 L564,565	DLTU-R	(TN 1311)	0.290

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J5D003FF-1 L566	DLTU-R	(TN131 1B)	0.290
J5D003FF-1 L567,568	DLTU-R	(TN1312)	0.300
J5D003FF-1 L569	DLTU-R	(TN1312B)	0.340
J5D003FF-1 L570	DLTU-R	(TN1312C)	0.340
J5D003FF-1 L571,572	DLTU-R	(TN1309)	0.300
J5D003FF-1 L573	DLTU-R	(TN1309B)	0.300
J5D003FF-1 L574,575	DLTU-R	(TN1310)	0.300
J5D003FF-1 L576	DLTU-R	TN1310B	0.320
J5D003FF-1 L577	DLTU-R	TN1310C	0.320
J5D003FF-1 L578,579,580	DLTU-R	TN1304	0.290
J5D003FF-1 L581	DLTU-R	TN1304B	0.290
J5D003FF-1 L582	DLTU-R	TN1304C	0.220
J5D003FF-1 L583,584	DLTU-R	TN1305	0.300
J5D003FF-1 L585	DLTU-R	TN1305B	0.430
J5D003FF-1 L586	DLTU-R	TN1410	0.220
J5D003FF-1 L587	DLTU-R	TN1411	1.600
J5D003FF-1 L588	DLTU-R	TN11410B	0.220
J5D003FF-1 L589	DLTU-R	TN1304C	0.220
J5D003FF-1 L590	DLTU-R	TN1306B	0.250
J5D003FG-1 L1	LAU		0.000
J5D003FG-1 L2	LAU		0.600
J5D003FG-1 L3	LAU		0.600
J5D003FG-1 L4	LAU		0.240
J5D003FG-1 L5	LAU		0.300
J5D003FH-2 L1	Fan- shelf		0.000
J5D003FH-2 L2	Fan-6		1.5 <25C deg 3.0 >25C deg
J5D003FH-2 L3	Fan-6		1.5 <25C deg 3.0 >25C deg
J5D003FH-2 L4	Fan -3		0.75 <25C deg 1.50 >25C deg
J5D003FH-2 L5	Fan-3		0.75 <25C deg 1.50 >25C deg
J5D003FL-1 L2,2A	IDCU	429AA	0.000
J5D003FL-1 L3,3A	IDCU	KBN6	0.840
J5D003FL-1 L3B,3C	IDCU	KBN6B	0.840
J5D003FL-1 L4	IDCU	UN359	1.160
J5D003FL-1 L4A	IDCU	UN586	0.560
J5D003FL-1 L5	IDCU	TN1670	0.160
J5D003FL-1 L6	IDCU	KBN7	0.000
J5D003FL-1 L502	IDCU	KBN6	0.430
J5D003FL-1 L506	IDCU	KBN6B	0.840
J5D003FL-1 L503	IDCU	UN359	1.160
J5D003FL-1 L503A	IDCU	UN586	0.560
J5D003FL-1 L504	IDCU	TN1670	0.160
J5D003FL-1 L505	IDCU	KBN7	0.000
J5D003FL-1 L506,507	IDCU	KBN6B	0.840
J5D003FN-1 L1	DLTU3	SN730	0.010
J5D003FN-1 L503	DLTU3	TN161 IB	0. 10A/pack
J5D003FN-1 L504	DLTU3	TN1612B	0. 15/pack

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J5D003FN-1 L505,506	DLTU3	TN1414	0.12A/pack	
J513003FN-1 L507,508	DLTU3	TN1415	0.13A/pack	
J5D003FN-1 L509,510, 511	DLTU3	TN1421	0.40A/pack	
J5D003FN-1 L512,513	DLTU3	TN4011	0.10 A/pack	
J5D003FR-1 L1	DNU	shelf	0.0A	
*J5D003FR-1 L2, 2A	DNU	KLU2	0.625/pack	
*J5D003FR-1 L3, 3A	DNU	KLU3	0.625A/pack	
J5D003FR-1 L4	DNU	KTUI	0.845A/pack	
*J5D003FR-1 L4A	DNU	KTU1B	0.43A/pack	May-99
J5D003FR-1 L5	DNU	KTU2	0.67A/pack	
J5D003FR-1 L6	DNU	9821DA	0.0A	
J5D003FR-1 L7	DNU	982TN	0.27A/pack	
J5D003FR-1 L8	DNU	remote connecto	0.0A	
J5D003FS-1 L01	CSU	shelf ass'y	0.0A	
J5D003FS-1 L02	CSU	494LA	0.0A	
J5D003FS-1 L03	CSU	TN879B	0.37A	
J5D003FS-1 L04	CSU	TN138	0.19A	
J5D003FS-1 L05,05A	CSU	TN1422	0.31A	
J5D003FS-1 L06	CSU	TN880	0.10A	
J5D003FS-1 L07	CSU	TN220B	0.90A	
J5D003FS-1 L08	CSU	TN221	0.13A	
J5D003FS-1 L09	CSU	TN138	0.19A	
J5D003FS-1 L10	CSU	TN833C	0.61A	
J5D003FS-1 L11	CSU	TN1634	1.00A	
J5D003FS-1 L12	CSU	UN363	0.52A	
J5D003FS-1 L13	CSU	SN346B	0.01A	
J5D003FS-1 L14	CSU	SN730	0.01A	
J5D003FS-1 L15	CSU	TN1611B	0.1A	
J5D003FS-1 L16	CSU	TN111612B	0.15A	
J5D003FS-1 L17	CSU	TN1414	0.12A	
J5D003FS-1 L18	CSU	TN1415	0.13A	
J5D003FS-1 L19	CSU	TN1421	0.40A	
J5D003FS-1 L23	CSU	TN1841	0.57A	
J5D003FS-1 L24	CSU	TN1842	0.063A	
J5D003FT-1 L1	Fan-6		1.50 <25C deg	
J5D003FT-1 L2	Fan-3		0.75 <25C deg	
J5D003JA-1 L01	STIU			
J5D003JA-1 L02	STIU			
J5D003JA-1 L03	STIU			
J5D003JD-1 L01,F	ECS	SN346B	0.010	
J5D003JD-1 L02,03,04,05	ECS	TN1511	0.520	
J5D003JD-1 L06,07,08,09	ECS	TN1825	0.400	
J5D003JD-1 L03,05,07,09	ECS	TN1512	0.260	
J5D003JD-1 LA	ECS	TN1511	0.520	
J5D003JD-1 LB	ECS	TN1511	0.520	
J5D003JD-1 LG	ECS	SN730	0.010	
J5D003JD-1 L502	ECS	SN346B	0.010	
J5D003JD-1 L503	ECS	SN730	0.010	
J5D003JD-1 L505	ECS	SN1825	0.400	
J5D003JD-1 L506	ECS	TN1512	0.260	
J5D003LA-1 L01	MCTU2		0.000	

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J5D0031A-1 L02	MCTU2		0.000
J5D003LA-1 L03	MCTU2		0.000
J513003LA-1 L04	MCTU2		0.000
J5D003LA-1 L05	MCTU2		1.710
J5D003LA-1 L06	MCTU2		0.730
J5D003LA-1 L07	MCTU2		1.160
J5D003LA-1 L07A	MCTU2		0.850
J5D003LA-1 L08	MCTU2		0.000
J5D003LA-1 L09	MCTU2		0.310
J513003LA-1 L10	MCTU2		0.470
J513003LA-1 L11	MCTU2		0.560
J5D003LA-1 L12	MCTU2		0.000
J5D003LA-1 L13	MCTU2		0.000
J5D003LA-1 L14	MCTU2		0.000
J513003LA-1 L15	MCTU2		0.000
J5D003LA-1 L16	MCTU2		0.000
J5D003LA-1 L17	MCTU2		0.000
J5D0031A-1 L18	MCTU2		0.000
J5D003LA-1 L19	MCTU2		0.430
J5D003LA-1 L20	MCTU2		0.000
J513003LA-1 L21	MCTU2		0.440
J5D003LA-1 L22	MCTU2		0.000
J5D003LA-1 L22A	MCTU2		0.000
J5D003LA-1 L23	MCTU2		0.110
J5D003LA-1 L24	MCTU2		0.000
J5D003LA-1 L26	MCTU2		0.000
J5D003LA-1 L28	MCTU2	(aws-un362)	0.500
J5D003LA-1 L29	MCTU2	(aws-tn1838)	0.125
J5D003LA-1 LT	MCTU2		0.000
J5D003LA-1 LAZ	MCTU2		0.000
J5D003LA-1 LBA	MCTU2		0.000
J5D003LB-1 L1	MCTU3	(SHELF)	
J5D003LB-1 L2	MCTU3	(TN1424)	
J5D003LB-1 L4	MCTU3	(KBN17)	
J5D003LB-1 L5	MCTU3	(KBN18)	
J5D003LB-1 L6	MCTU3	(KBN19)	
J5D003LB-1 L7	MCTU3	(UN71B)	
J5D003LB-1 L7A,7B	MCTU3	(UN71C)	0.360
J5D003LB-1 L8	MCTU3	(UN395)	0.700
J5D003LB-1 L8A	MCTU3	(UN395B)	0.760
J5D003LB-1 L9	MCTU3	(TN1086B)	0.380
J5D003LB-1 L10	MCTU3	(TN1524)	0.210
J5D003LB-1 L11	MCTU3	(TN1377)	0.210
J5D003LB-1 L12	MCTU3	(TN1077F)	0.340
J5D003LB-1 L13	MCTU3	(TN833C)	0.610
J5D003LB-1 L14	MCTU3	(982TRC)	0.030
J5D003LB-1 L14	MCTU3	(982TSC)	0.030
J5D003LB-1 L20	MCTU3	(TN1042B)	0.690
J5D003LB-1 L21	MCTU3	(KBN21)	0.480
J5D003LB-1 L22	MCTU3	(KBN20)	0.400
J5D003LB-1 L23	MCTU3	(KBN22)	0.550

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J5D003NA-1 L1	SMPU4	(Base Unit)	0.000	
J5D003NA-1 L2	SMPU4	(Base Unit)	0.000	
J5D003NA-1 L3	SMPU4	(410AA)	0.000	
J5D003NA-1 L3A	SMPU4	(410AA2)	0.000	
J5D003NA-1 L4	SMPU4	(SN516B)	0.120	
J5D003NA-1 L4A	SMPU4	(SN516C) -	0.100	
*J5D003NA-1 L5,5A,5B	SMPU4	(KBN8)	0.540	Feb-99
*J5D003NA-1 L5C	SMPU4	(KBN8B)	0.540	Feb-99
J5D003NA-1 L6	SMPU4	(UN539)	0.400	
*J5D003NA-1 L6A,B	SMPU4	(UN539B)	0.156	Feb-99
J5D003NA-1 L7,7A,7B	SMPU4	(UN540)	0.810	
J5D003NA-1 L7C,7D	SMPU4	(UN540B)	0.750	
J5D003NA-1 L9,9A,9B	SMPU4	(TN1685)	0.720	
J5D003NA-1 L10,10A	SMPU4	(UN538)	0.520	
J5D003NA-1 L11	SMPU4	(TN1042)	0.560	
J5D003NA-1 L11A	SMPU4	(TN1042B)	0.690	
J5D003NA-1 L12	SMPU4	(UN71B)	0.310	
J5D003NA-1 L12A,12B	SMPU4	(UN71C)	0.360	
J5D003NA-1 L17,17A	SMPU4	(UN395)	0.700	
J5D003NA-1 L17B	SMPU4	(UN395B)	0.760	
*J5D003NA-1 L21	SMPU4	982YP	0.012	Feb-99
*J5D003NA-1 L21 A	SMPU4	982YPA	0.012	Feb-99
*J5D003NA-1 L22	SMPU4	982YN	0.012	Feb-99
J5D003NA-1 L24	SMPU4	(TN1806)	0.660	
J5D003NA-1 L25	SMPU4	(UN560)	0.750	
J5D003NA-1 L25A	SMPU4	(UN560)	0.750	
J5D003NA1 L26,26A	SMPU4	(UN593)	0.750	
J5D003NA-1 L27	SMPU4	(UN555)	0.240	
J5D003NA-1 L31	SMPU4	(UN594)	0.750	
J5D003NA-1 LAK	SMPU4	(UN540)	0.810	
J5D003NA-1 L500	SMPU4	(shelf)	0.000	
J5D003NA-1 L502	SMPU4	(410AA)	0.000	
J5D003NA-1 L503	SMPU4	(SN516B)	0.120	
J5D003NA-1 L503A	SMPU4	(SN516C)	0.100	
J5D003NA-1 L504	SMPU4	(KBN8)	0.470	
J5D003NA-1 L504A	SMPU4	(KBN8B)	0.600	
J5D003NA-1 L505	SMPU4	(UN539)	0.400	
*J5D003NA-1 L505A	SMPU4	(UN539B)	0.156	Revised
J5D003NA-1 L506,506A	SMPU4	(UN540B)	0.750	
J5D003NA-1 L507	SMPU4	(TN1685)	0.720	
J5D003NA-1 L508	SNIPU4	(UN538)	0.520	
J5D003NA-1 L509	SMPU4	(TN1042B)	0.690	
J5D003NA-1 L510	SMPU4	(UN71B)	0.310	
J5D003NA-1 L510A,B	SMPU4	(UN71C)	0.360	
J5D003NA-1 L514,514A	SMPU4	(UN395)	0.700	
J5D003NA-1 L514B	SMPU4	(UN395B)	0.760	
J5D003NA-1 L517	SMPU4	(UN584)	0.540	
J5D003NA-1 L521	SMPU4	(TNI806)	0.660	
J5D003NA-1 L523	SMPU4	(UN560)	0.750	
J5D003NA-1 L523A	SMPU4	(UN560)	0.750	
J5D003NA-1 L524,524A	SMPU4	(UN593)	0.750	

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J5D003NA-1 L525	SMPU4	(UN555)	0.240	
*J5D003NB-1 L2	TSIU4	UM74	0.600	Feb-99
J5D003NB-1 L2A	TSIU4	UM74B	0.150	
*J5D003NB-1 L2B	TSIU4	UM74C	0.204	Feb-99
*J5D003NB-1 L2C	TSIU4	UM74D	0.213	Feb-99
*J5D003NB-1 L3	TSIU4	BKD4	0.053	Feb-99
*J5D003NB-1 L4	TSIU	982AAB	0.003	Feb-99
J5D003NB-1 L5	TSIU4	486AA	0.000	
*J5D003NB-1 L6	TSIU4	982AAE	~0.001	Feb-99
J5D003NB-1 L7,7A,7B	TSIU4	LTM73	1.080	
J5D003NB-1 L9,9A	TSIU4	KLUI	1.040	
J5D003NB-1 L9B	TSIU4	KLUIB	0.960	
J5D003NB-1 L10	TSIU4	BKDI	0.080	
J5D003NB-1 L12	TSIU4	BKD7	0.080	
J5D003NB-1 L13	TSrU4	BKD2	0.080	
J5D003NB-1 L14	TSIU4	BKD3	0.080	
J5D003NB-1 L501	TSIU4	UM74B	0.150	
J5D003NB-1 L501A	TSIU4	UM74C	0.200	
J5D003NB-1 L502	TSIU4	BKD4	0.053	
J5D003NB-1 L504	TSIU4	486AA	0.000	
J5D003NB-1 L506	TSIU4	LTM73	1.080	
J5D003NB-1 L508	TSIU4	KLUI	1.040	
J5D003NB-1 L508A	TSIU4	KLUIB	0.960	
J5D003NB-1 L509	TSIU4	BKDI	0.080	
J5D003NB-1 L510	TSIU4	BKD7	0.080	
J5D003N-B-1 L511	TSIU4	BKD2	0.080	
J5D003NB-1 L512	TSIU4	BKD3	0.080	
J5D003NB-2, L3	TSIU4.V2	UM74C	0.200	
*J5D003NB-2, L3A	TSIU4.V2	UM74D	0.213	Aug-99
*J5D003NB-2, L4	TSIU4.V2	BKD4	0.053	Sep-99 was 0.5
*J5D003NB-2 L5	TSIU4.V2	982AAB	0.003	Feb-99
J5D003NB-2, L6	TSIU4.V2	486AA	0.000	
J5D003NB-2, L7	TSIU4.V2	410AA	0.000	
J5D003NB-2, L8	TSIU4.V2	KLUI	1.040	
J5D003NB-2, L8A	TSIU4.V2	KLUIB	0.960	
J5D003NB-2, L9	TSIU4.V2	BKD1	0.080	
J5D003NB-2, L10	TSIU4.V2	UN553	0.520	
J5D003NB-2, L11	TSIU4.V2	BKD7	0.080	
J5D003NB-2, L12	TSIU4.V2	BKD2	0.080	
J5D003NB-2, L13	TSIU4.V2	BKD3	0.080	
J5D003NC-1 L1	DSC3	shelf	0.000	
J5D003NC-1 L2	DSC3	UN363	0.520	
J5D003NC-1 L3	DSC3	UN590	0.060	
J5D003NG-1 L3	SMPU5	UN589	0.120	
J5D003NG-1 L3A	SMPU5	UN589	0.120	
J5D003NG-1 L4	SMPU5	UN560	0.750	

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J5D003NG-1 L5	SMPU5	TN1685	0.720	
J5D003NG-1 L6	SMPU5	TN1806	0.660	
*J5D003NG-1 L7	SMPU5	KBN8B	0.540	Rev Feb 99
J5D003NG-1 L8	SMPU5	UN538	0.520	
J5D003NG-1 L9	SMPU5	UN539	0.400	
J5D003NG-1 L9A,B	SMPU5	UN539B	0.156	
J5D003NG-1 L11	SMPU5	UN395B	0.760	
J5D003NG-1 L12	SMPU5	UN71C	0.360	
J5D003NG-1 L13	SMPU5	UN363	0.520	
*J5D003NG-1 L14	SMPU5	982 ET	0.000	Feb-99
		connector		
J5D003NG-1 L17	SMPU5	UN584	0.540	
*J5D003NG-1 L18	SMPU5	982YF	0.012	Feb-99
*J5D003NG-1 L18A	SMPU5	982YPA	0.012	Feb-99
*J5D003NG-1 L19	SMPU5	982YN	0.012	Feb-99
*J5D003NG-1 L20	SMPU5	9822DU	~ 0.000	Feb-99
J5D003NG-1 L22	SMPU5	UN593	0.750	
J5D003NG-1 L22A	SMPU5	UN593	0.750	
J5D003NG-1 L23	SMPU5	UN555	0.240	
J5D003NG-1 L25	SMPU5	UN588	0.540	
J5D003NG-1 L26	SMPU5	UN590	0.060	
J5D003NF-1 L3	XCDU	414AA	0.000	
J5D003NF-1 L4	XCDU	TN1996	0.480	
J5D003NF-1 L5	XCDU	UN553	0.520	
J5D003NF-1 L6	XCDU	UN71C	0.360	
J5D004AB-1 L01	LU		3.510	
J5D004AB-1 L02	LU		0.700	
J5D004AB-1 L03	LU		0.700	
J5D004AB-1 L04	LU		0.440	
J5D004AB-1 L05	LU		0.000	
J5D004AB-1 LA	LU		0.000	
J5D004AC-1 L01	LU2 4:1		4.120	
J5D004AC-1 L02	LU2 6:1		0.440	
J5D004AC-1 L03	LU2 8:1		0.440	
J5D004AC-1 L04	LU2 R&T		0.480	
J5D004AC-1 LA	LU2		0.000	
J5D004AC-2 L01	LU2	CR 2 BD GRID	2.500	
J5D004AC-2 L02	LU2	CR SER 3 GDX	0.360	
J5D004AC-2 L03	LU2	CR	0.360	
J5D004AC-2 L04	LU2	CR	2.260	
J5D004AC-2 L05	LU2		0.860	
J5D004AC-2 L06	LU2		1.990	
J5D004AC-2 L07	LU2			
J5D004AC-2 L08	LU2			
J5D004AC-2 L09	LU2		0.720	
J5D004AC-2 LL0	LU2		0.360	
J5D004AC-2 L11	LU2		0.360	
J5D004AC-2 L12	LU2		0.880	
J5D004AC-2 L13	LU2		0.440	
J5D004AC-2 L14	LU2		0.440	

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J5D004AC-2 L15	LU2		0.880	
J5D004AC-2 L16	LU2		0.440	
J5D004AC-2 L17	LU2		0.440	
J5D004AC-2 L24	LU2		0.660	
J5D004AC-2 L25	LU2		0.170	
J5D004AC-2 L26	LU2		0.170	
J5D004AC-2 L27	LU2		0.660	
J5D004AC-2 L28	LU2		0.170	
J5D004AC-2 L29	LU2		0.170	
J5D004AC-2 L30	LU2		0.660	
J5D004AC-2 L31	LU2		0.170	
J5D004AC-2 L32	LU2		0.170	
J5D004AD-1 L1,76,76A	LU3	494GB	0.000	
J5D004AD-1 L1,76,76A	LU3	UN322	0.070	
J5D004AD-1 LBR	LU3	UN322B	0.520	
J5D004AD-1 L1,76,76A	LU3	TN831	0.110	
J5D004AD-1 Lbv	LU3	TN831B	0.750	
J5D004AD-1 LCM	LU3	TN831C	0.090	
J5D004AD-1 L1,76,76A	LU3	TN832	0.110	
J5D004AD-1 LBX	LU3	TN832B	0.250	
*J5D004AD-1 LCL	LU3	TN832C	0.090	was TN832
J5D004AD-1 L76	LU3	TN335C	0.390	
J5D004AD-1 L2	LU3	TN335C	0.390	
*J5D004AD-1 L2,L76A	LU3	TN335E	0.390	Sep-99
J5D004AD-1 L3	LU3	AJT5	0.020	
J5D004AD-1 L3A	LU3	AJT5B	0.020	
J5D004AD-1 L3B	LU3	AJT5B	0.020	
J5D004AD-1 L4	LU3	AJT6	0.090	
J5D004AD-1 L4A	LU3	AJT6B	0.020	
J5D004AD-1 L4B	LU3	AJT6B	0.020	
J5D004AD-1 L5	LU3	AJT40B		
J5D004AD-1 L6	LU3	AJT41	0.240	
*J5D004AD-1 L7	LU3	AJT7	0.090	Sep-99
*J5D004AD-1 L7A	LU3	AJT7B	0.020	Sep-99
J5D004AD-1 L7B	LU3	AJT7B	0.020	
J5D004AD-1 L8	LU3	AJT50		
J5D004AD-1 L17	LU3	TN1048	0.110	
J5D004AD-1 L18	LU3	TN1048	0.110	
J5D004AD-1 L19	LU3	TN1048	0.110	
J5D004AD-1 L20	LU3	TN1048	0.110	
J5D004AD-1 L21	LU3	TN1058	0.110	
J5D004AD-1 L22	LU3	TN1058	0.110	
J5D004AD-1 L23	LU3	TN1058	0.110	
J5D004AD-1 L24	LU3	TN1058	0.110	
J5D004AD-1 L25	LU3	TN1058B	0.130	
J5D004AD-1 L25A	LU3	TN1058C	0.120	
J5D004AD-1 L26	LU3	TN1058B	0.130	
J5D004AD-1 L26A	LU3	TN1058C	0.120	
J5D004AD-1 L27	LU3	TN1058B	0.130	
J5D004AD-1 L27A	LU3	TN1058C	0.120	
J5D004AD-1 L28	LU3	TN1058B	0.130	

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J5D004AD-1 L28A	LU3	TN1058C	0.120	
J5D004AD-1 L29	LU3	TN1535	0.110	
J5D004AD-1 L30	LU3	TN1535	0.110	
J5D004AD-1 L31	LU3	TN1535	0.110	
J5D004AD-1 L32	LU3	TN1535	0.110	
J5D004AD-1 L45,76,76A	LU3	TN844	0.260	
J5D004AD-1 L46	LU3	TN844	0.260	
J5D004AD-1 L47	LU3	TN844	0.260	
J5D004AD-1 L48	LU3	TN844	0.260	
J5D004AD-1 L48A	LU3	TN844C	0.170	
J5D004AD-1 L48B	LU3	TN844C	0.170	
J5D004AD-1 L49	LU3	TN844	0.260	
J5D004AD-1 L49A	LU3	TN844C	0.170	
J5D004AD-1 L49B	LU3	TN844C	0.170	
J5D004AD-1 L50	LU3	TN844	0.260	
J5D004AD-1 L50A	LU3	TN844C	0.170	
J5D004AD-1 L50B	LU3	TN844C	0.170	
J5D004AD-1 L51	LU3	TN1401B	0.91(CCS/36)	
J5D004AD-1 L52	LU3	TN1401B	0.91(CCS/36)	
J5D004AD-1 L53	LU3	TN1401B	0.91(CCS/36)	
*J5D004AD-1 L69	LU3	TN1402	1.040	Sep-99
J5D004AD-1 LBY	LU3	TN1402	1.040	
J5D,004AD-1 L70	LU3	TN1402	1.040	
J5D004AD-1 LBZ	LU3	TN1402	1.040	
J5D004AD-1 L75	LU3	UN402	0.110	
J5D004AD-1 LBB	LU3	TN844C	0.170	
J5D004AD-1 LBC	LU3	TN844C	0.170	
J5D004AD-1 LBD	LU3	TN844C	0.170	
*J5D004AD-1 LBG,LBH	LU3	TN335E	0.390	Sep-99
*J5D004AD-1 LBJ,LBK,LBN, LBP	LU3	TN844C	0.390	
*J5D004AE-1 L01	LU2 Export	TN831,2 TN842 TN843,TN832 8 TN838	1.580	Sep-99
*J5D004AE-1 L1A	LU2 Export			Sep-99
J5D004AE-1 L02	LU2 Export		0.360	
J5D004AE-1 L03	LU2 Export		0.360	
J5D004AE-1 L04	LU2 Export		0.720	
J5D004AE-1 L05	LU2 Export		0.720	
*J5D004AE-1 L5A	LU2 Export			Sep-99
*J5D004AE-1 L5B	L:U2 Export			Sep-99
J5D004AE-1 L6	LU2 Export		0.720	Sep-99
J5D004AE-1 L7	LU2 Export		0.720	Sep-99
J5D004AE-1 L8	LU2 Export		0.720	Sep-99
J5D004AE-1 L8A	LU2 Export			Sep-99
J5D004AE-1 L8B	LU2 Export			Sep-99
*J5D004AE-1 L19	LU2 Export	4 TN844	1.040	
*J5D004AE-1 L19A	LU2 Export	4 TN844C	0.680	Sep-99
*J5D004AE-1 L19B	LU2 Export	4 TN844C	0.680	Sep-99
*J5D004AE-1 L19C	LU2 Export	4 TN844E		Sep-99

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*J5D004AE-1 L20	LU2 Export	TN844	0.260	Sep-99
*J5D004AE-1 L21	LU2 Export	TN844	0.260	Sep-99
*J5D004AE-1 L22	LU2 Export	4 TN844	1.040	Sep-99
*J5D004AE-1 L23	LU2 Export	TN844	0.260	Sep-99
*J5D004AE-1 L24	LU2 Export	TN844	0.260	Sep-99
*J5D004AE-1 L25	LU2 Export	4 TN844	1.040	Sep-99
*J5D004AE-1 L25A	LU2 Export			Sep-99
*J5D004AE-1 L25B	LU2 Export			Sep-99
*J5D004AE-1 L25C	LU2 Export			Sep-99
*J5D004AE-1 L26	LU2 Export	TN844	0.260	Sep-99
*J5D004AE-1 L26A	LU2 Export	TN844	0.260	Sep-99
*J5D004AE-1 L26B	LU2 Export			Sep-99
*J5D004AE-1 L26C	LU2 Export			Sep-99
*J5D004AE-1 L27	LU2 Export	TN844	0.260	Sep-99
*J5D004AE-1 L27A	LU2 Export			Sep-99
*J5D004AE-1 L27B	LU2 Export			Sep-99
*J5D004AE-1 L27C	LU2 Export			Sep-99
*J5D004AE-1 L64	LU2 Export	8 TN1058B		Sep-99
*J5D004AE-1 L64A	LU2 Export	8 TN1058C		Sep-99
*J5D004AE-1 L65	LU2 Export			Sep-99
*J5D004AE-1 L65A	LU2 Export	4 TN1058C		Sep-99
*J5D004AE-1 L66	LU2 Export			Sep-99
*J5D004AE-1 L66A	LU2 Export	4 TN1058C		Sep-99
*J5D004AE-1 L67	LU2 Export	8 TN1048		Sep-99
*J5D004AE-1 L68	LU2 Export	4 TN1048		Sep-99
*J5D004AE-1 L69	LU2 Export	4 TN1048		Sep-99
J5D004AG-1 L01	ISLU		0.000	
J5D004AG-1 L02	ISLU		3.920	
J5D004AG-1 L03	ISLU		(.91)(AVE CCS/36)	
J5D004AG-1 L04	ISLU		(4.43)(AVE CCS/36)	
J5D004AG-1 L05	ISLU		(0.94)(AVE CCS/36)	
J5D004AG-1 L06	ISLU		(.9 1)(AVE CCS/3 6)	
J5D004AG-1 L07	ISLU		(.91)(AVE CCS/36)	
J5D004AH-1 L01	ISLU		0.000	
J5D004AH-1 L02	ISLU		0.000	
J5D004AH-1 L3	ISLU		0.000	
J5D004AH-1 L04	ISLU		0.000	
J5D004AH-1 L05	ISLU		0.063	
J5D004AH-1 L06	ISLU	T CARD PRI	0.004	
J5D004AH-1 L07	ISLU	Z CARD ANAL001 + 0.059(AVE CCS/36)		
J5D004AH-1 L08	ISLU	U CARD	0.031	
J5D004AH-1 L09	ISLU		0.000	
J5D004AH-1 L10	ISLU	Intern'l	0.042(AVE CCS/36)	
J5D004AH-1 L11	ISLU	Intern'l	0.042(AVE CCS/36)	
J5D004AH-1 L12	ISLU	Intern'l	0.042(AVE CCS/36)	
J5D004AH-1 L13	ISLU	Intern'l		
J5D004AH-1 L14	ISLU	Intern'l		
J5D004AH-1 L15	ISLU	Intern'l		
J5D004AH-1 L16	ISLU	Intern'l		
J5D004AH-1 L17	ISLU	Intern'l		

J5D004AH-1 L18	ISLU	Intern'l	
J5D004AH-1 L19	ISLU		0.000
J5D004AH-1 L20	ISLU		0.000
J5D004AH-1 L21	ISLU		0.000
J5D004AH-1 L22	ISLU		0.000
J5D004AH-1 L23	ISLU		0.056
J5D004AK-1 L01	ISLU		0.000
J5D004AK-1 L02	ISLU		3.920
J5D004AK-1 L03	ISLU		0.000
J5D004AK-1 L04	ISLU		0.000
J5D004AK-1 L05	ISLU		0.000
J5D004AK-1 L06, 06A	ISLU		0.063
J5D004AK-1 L07	ISLU		0.004
J5D004AK-1 L08	ISLU	0.01 + 0.059(AVE CCS/36)	
BDOWAK-1 L09	ISLU		0.032
J5D004AK-1 L1	ISLU		0.000
J5D004AK-1 L11	ISLU		0.91(AVE CCS/36)
J5D004AK-1 L12	ISLU		4.43(AVE CCS/36)
J5D004AK-1 L13	ISLU		0.94(AVE CCS/36)
J5D004AK-1 L14	ISLU		0.91(AVE CCS/36)
J5D004AK-1 L15	ISLU		0.91(AVE CCS/36)
J5D004AK-1 L16	ISLU		0.000
J5D004AK-1 L17	ISLU		0.000
J5D004AK-1 L18	ISLU		INTERNAT10NAL
J5D004AK-1 L19	ISLU		INTERNAT10NAL
J5D004AK-1 L20	ISLU		INTERNAT10NAL
J5D004AK-1 L21	ISLU		INTERNAT10NAL
J5D004AK-1 L22	ISLU		INTERNAT10NAL
J5D004AK-1 L23	ISLU		INTERNAT10NAL
J5D004AK-1 L24	ISLU		INTERNAT10NAL
J5D004AK-1 L25	ISLU		INTERNAT10NAL
J5D004AK-1 L26	ISLU		INTERNAT10NAL
J5D004AK-1 L27	ISLU		0.000
J5D004AK-1 L33	ISLU		0.056
J5D004AL-1 L01	ISLU2	(common shelf)	0.0A
J5D004AL-1 L02	ISLU2	(UNe shelf)	0.0A
J5D004AL-11,10	ISLU2	(u-law idle code)	0.0A
J5D004AL-1 L1 I	ISLU2	(RISLU2)	0.0A
J5D004AL-1 L12	ISLU2	(FPPMU)	0.0A
J5D004AL-1 L16,17	ISLU2	(495NA)	0.0A
J5D004AL-1 L16,17	ISLU2	(UN359)	1.160
J5D004AL-1 L16	ISLU2	(UN360)	0.290
J5D004AL-1 L16,17	ISLU2	(UN361)	0.270
J5D004AL-1 L17	ISLU2	(UN392)	0.440
J5D004AL-1 L22	ISLU2	(TN1412)	1.500
J5D004AL-1 L22A	ISLU2	(TN1412)	1.500
J5D004AL-1 L23	ISLU2	(TN844E)	0.220
J5D004AL-1 L28	ISLU2	(TN1676)	0.230
J5D004AL-1 L28A	ISLU2	(TN1676)	0.230
J5D004AL-1 L34,34A	ISLU2	(TN1347B)	4.43(CCS/36)A/pack
J5D004AL-1 L35,35A	ISLU2	(TN1384B)	0.91(CCS/36)A/pack

J5D004AL-1 L41, 41A	ISLU2	MPAI/MPA1B	2+ (0.336 x AVE CCS/36)
J5D004AL-1 L42, 42A	ISLU2	MPA2/MPA2B	9 + (0.400 x AVE CCS/36)
J5D004AL-1 L43,43A	ISLU2	MPA3/MPA3B	2 + (0.376 x (AVE CCA/36))
J5D004AL-1 L44,44A	ISLU2	MPA4/MPA4B	1 + (0.450 X (AVE CCS/36))
J5D004AL-1 L45,45A	ISLU2	MPA5/MPA5B	2 + (0.336 x (AVE CCS/36))
J5D004AL-11,46,46A	ISLU2	MPA7/MPA7B	2 + (0.336 x (AVE CCS/36))
J5D004AL-1 L47,47A,47B	ISLU2	MPA6/MPA6B	3 + (0.400 x (AVE CCS/36))
J5D004AL-1 L48,48A	ISLU2	MPA8/MPA8B	3 + (0.400 x (AVE CCS/36))
J5D004AL-1 L49	ISLU2	MPA9B	2 + (0.336 x (AVE CCS/36))
J5D004AL-1 L50	ISLU2	MPA10B	3 + (0.450 x (AVE CCS/36))
J5D004AL-1 L51	ISLU2	MPA11B	2 + (0.376 x (AVE CCS/36))
J5D004AL-1 L52	ISLU2	MPA12B	3 + (0.450 x (AVE CCS/36))
J5D004AL-1 L53	ISLU2	MPA14B	3 + (0.450 x (AVE CCS/36))
J5D004AL-1 L54	ISLU2	MPA17B	2 + (0.336 x (AVE CCS/36))
J5D004AL-1 L55	ISLU2	MPA18B	1 + (0.450 x (AVG CCS/36))
J5D004AL-1 L56	ISLU2	MPA16B	1 + (0.450 x (AVG CCS/36))
J5D004AL-1 L60,60A	ISLU2	MPUI/MPUIB	0.60A
J5D004AL-1 L61	ISLU2	MTU2	0.170
J5D004AL-1 L80	ISLU2	MPTI	0.05A
J5D004AL-1 L90	ISLU2	MPA21	1 + (0.715 x (AVG CCS/36))
J5D004AL-1 L91	ISLU2	MPA23	3 + (0.715 x (avg CCS/16))
J5D004AL-1 L92	ISLU2	MPA25	9 + (0.715 x (avg CCS/36))
J5D004AL-1 L93	ISLU2	MPA27	9 + (0.715 x (avg CCS/36))
J5D004AL-1 L94	ISLU2	MPA29	9 + (0.715 x (avg CCS/36))
J5D004AL-1 L95	ISLU2	MPA24	9 + (0.715 x (avg CCS/36))
J5D004AL-1 L101,101A	ISLU2	MPH1	7A/pack calc as equipped
J5D004AL-1 L103	ISLU2	MPH2	7A/pack calc as equipped
J5D004AL-1 L502	ISLU2	495NA	0.000
J5D004AL-1 L503	ISLU2	UN359	1.160
J5D004AL-1 L504	ISLU2	UN360	0.290
J5D004AL-1 L505	ISLU2	UN361	0.270
J5D004AL-1 L506	ISLU2	UN392	0.440
J5D004AL-1 L507	ISLU2	BKGI	0.000
J5D004AL-1 L508	ISLU2	BKG2	0.000
J5D004AL-1 L509	ISLU2	TN1412	1.500
J5D004AL-1 L510	ISLU2 I		
J5D004AL-1 L511	ISLU2	TN1676	0.230
J5D004AL-1 L512	ISLU2	TN1347B	4.43(CCS/36)
J5D004AL-1 L513	ISLU2	TN1384B	0.91(CCS/36)
J5D004AL-1 L514	ISLU2	MPAI/MPA1B	2 + (0.336 x (AVE CCS/36))
J5D004AL-1 L515	ISLU2	MPA2/MPA2B	3 + (0.336 x (AVE CCS/36))
J5D004AL-1 L516	ISLU2	MPA3/MPA3B	2 + (0.376 x (AVE CCS/36))
J5D004AL-1 L517	ISLU2	MPA4/MPA4B	1 + (0.450 X (AVE CCS/36))
J5D004AL-1 L518	ISLU2	MPA5/MPA5B	2 + (0.336 x (AVE CCS/36))
J5D004AL-1 L519	ISLU2	MPA7/MPA7B	2 + (0.336 x (AVE CCS/36))
J5D004AL-1 L520	ISLU2	MPA6/MPA6B	3 + (0.400 x AVE CCS/3 6))
J5D004AL-1 L520A	ISLU2	MPA6/MPA6B	3 + (0.400 x (AVE CCS/36))
J5D004AL-1 L521	ISLU2	MPA8/MPA8B	1 + (0.400 X (AVE CCS/36))
J5D004AL-1 L522	ISLU2	MPA9B	2 + (0.336 x (AVE CCS/36))
J5D004AL-1 L523	ISLU2	MPA10B	3 + (0.450 x (AVE CCS/36))
J5D004AL-1 L524	ISLU2	MPAI 1B	2 + (0.376 x (AVE CCS/36))

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J5D004AL-1 L525	ISLU2	MPA12B) + (0.450 x (AVE CCS/36))
J5D004AL-1 L525A,547	ISLU2	MPA14B) + (0.450 x (AVE CCS/36))
J5D004AL-1 L526	ISLU2	MPU1B	0.420
J5D004AL-1 L527	ISLU2	MPT1	0.050
J5D004AL-1 L528	ISLU2	MPH1	0.070
J5D004AL-1 L530	ISLU2	MPH3	0.070
J5D004AL-1 L533	ISLU2	TN1412	1.500
J5D004AL-1 L534	ISLU2	TN1676	0.230
J5D004AL-1 L535	ISLU2	TN1347B	4.43(CCS/36)
J5D004AL-1 L536	ISLU2	TN1384B	0.91(CCS/36)
J5D004AL-1 L537	ISLU2	MPA1/MPA1B	+ (0.03 3 6 x (AVE CCS/3 6))
J5D004AL-1 L538	ISLU2	MPA2/MTA2B	+ (0.3 3 6 x (AVE CCS/3 6))
J5D004AL-1 L539	ISLU2	MPA3/MPA3B	+ (0.3 76 x (AVE CCS/36))
J5D004AL-1 L540	ISLU2	MPA4/MPA4B	9+(0.45 X (AVE CCS/36))
J5D004AL-1 L541	ISLU2	MPA5/MPA5B	+ (0.3 3 6 x (AVE CCS/3 6))
J5D004AL-1 L542	ISLU2	MPA7/MPA7B	+ (0.3 3 6 x (AVE CCS/3 6))
J5D004AL-1 L543	ISLU2	MPA6/MPA6B) + (0.400 x (AVE CCS/3 6))
J5D004AL-1 L544	ISLU2	MPA8/MPA8B) + (0.400 x (AVE CCS/3 6))
J5D004AL-1 L545	ISLU2	MPU1	0.600
J5D004AL-1 L546	ISLU2	MPH1	0.070
J5D004AL-1 L547	ISLU2	MPA14B) + (0.450 x (AVE CCS/36))
J5D004AL-1 L548	ISLU2	MPA23) + (0.715 x (AVE CCS/3 6))
J5D004AL-1 L549	ISLU2	MPA27) + (0.715 x (AVE CCS/36))
J5D004AL-1 L550	ISLU2	MPA17B	! + (0.3 3 6 x (ave CCS/3 6))
J5D004AL-1 L551	ISLU2	MPA18B	9 + (0.450 x (avg ccs/36))
J5D004AL-1 L552	ISLU2	MPA21	9 + (0.715 x (avg ccs/36))
J5D004AL-1 L553	ISLU	MPA25	9 + (0.715x (avg ccs/36))
J5D004AL-1 L554	ISLU2	MPU2	0.170
J5D004AL-1 L555	ISLU2	MPA29	9 x (0.715 x (avg CCS/36))
J5D004AL-1 L556	ISLU2	MPA24	9 + (0.715 x (avg ccs/36))
J5D004AL-1 L558	ISLU2	MPA16B	9 + (0.450 x (avg ccs/36))
J5D005AM-1 L3A	RLG	TN1412	0A/pack calc as equipped
J5D005AM-1 L4A	RLG	MPAI	· (0.3 3 6 x (avg ccs/3 6))/pack
J5D005AM-1 L4B	RLG	MPA3	+ (0.376 x (avg ccs/36))/pack
J5D005AM-1 L4C	RLG	MPA5	· (0.3 3 6 x (avg ccs/3 6))/pack
J5D005AM-1 L4D	RLG	MAP7	+ (0.336x (avg ccs/36))/pack
J5D004AM-1 L4E	RLG	MPA1B	· (0.3 3 6 x (avg ccs/3 6))/pack
J5D004AM-1 L4F	RLG	MPA3B	+ (0.376 x (avg ccs/36))/pack
J5D004AM-1 L4G	RLG	MPA5B	· (0.3 3 6 x (avg ccs/3 6))/pack
J5D004AM-1 L4H	RLG	MPA7B	· (0.3 3 6 x (avg ccs/3 6))/pack
J5D004AM-1 L4J	RLG	MPA9B	· (0.3 3 6 x (avg ccs/3 6))/pack
J5D004AM-1 L4K	RLG	MPA11B	+ (0.376 x (avg ccs/36))/pack
J5D004AM-1 L5A	RLG	MPA2	+ (0.400 x (avg ccs/36))/pack
J5D004AM-1 L5B	RLG	MPA4	+ (0.450 x (avg ccs/3 6))/pack
J5D004AM-1 L5C	RLG	MPA6	+ (0.400 x (avg ccs/36))/pack
J5D004AM-1 L5D	RLG	MPA8	+ (0.400 x (avg ccs/36))/pack
J5D004AM-1 L5E	RLG	MPA2B	+ (0.400 x (avg ccs/3 6))/pack
J5D004AM-1 L5F	RLG	MPA4B	+ (0.450 x (avg ccs/36))/pack
J5D004AM-1 L5G	RLG	MPA6B	+ (0.400 x (avg ccs/3 6))/pack
J5D004AM-1 L5H	RLG	MPA8B	+ (0.400 x (avg ccs/3 6))/pack
J5D004AM-1 L5J	RLG	MPAA10B	+ (0.450 x (avg ccs/36))/pack

J5D004AM-1 L5K	RLG	MPA12B	+ (0.450 x (avg ccs/36))/pack
J5D004AM-1 L6A	RLG	MPU1	0.60A/pack
J5D004AM-1 L6B	RLG	MPU1B	0.42A/pack
J5D005AA-1 L01	RPU		0.000
J5D005AA-1 L02	RPU		0.010
J5D005AA-1 L03	RPU		0.020
J5D005AA-1 L04	RPU		0.050
J5D005AA-1 L05	RPU		0.010
J5D005AA-1 L06	RPU		0.030
J5D005AA-1 L07	RPU		0.030
J5D005AA-1 L08	RPU		
J5D005AA-1 L09	RPU		
J5D005AB-1 L01	CONV,BELT		0.000
J5D005AC-1 L01	DTDA		0.740
J5D005AD-1 L01	OAU		0.610
J5D005CB-1 L01	RARU		0.390
J5D006AA-1 L01	MICU		1.360
J5D006AA-1 L02	MICU		0.600
J5D006AA-1 L03	MICU		0.120
J5D006AA-1 L04	MICU		0.120
J5D006AA-1 L A	MICU		0.050
J5D006AA-1 L B	MICU		0.030
J5D006AA-1 L C	MICU		0.050
J5D006AA-1 L D	MICU		0.030
J5D006AA-1 L E	MICU		0.000
J5D006AA-1 L G	MICU		0.000
J5D006AB-1 L01	MSCU		1.610
J5D006AB-1 L02	MSCU		0.150
J5D006AD-1 L01	MSPU		0.140
J5D006AD-1 L02	MSPU		0.960
J5D006AD-1 L03	MSPU		0.260
J5D006AD-1 L04	MSPU		1.420
J5D006AD-1 L05	MSPU		0.000
J5D006AD-1 LA	MSPU		0.000
J5D006AD-1 LB	MSPU		0.000
J5D006AD-1 LC	MSPU		0.000
J5D006AD-1 LD	MSPU		0.000
J5D006AD-1 LE	MSPU		0.000
J5D006AD-1 LF	MSPU		0.000
J5D006AF-1 L01	MSPU2		0.140
J5D006AF-1 L02	MSPU2		0.140
J5D006AF-1 L03	MSPU2		1.820
J5D006AF-1 L04	MSPU2		0.520
J5D006AF-1 L05	MSPU2		1.590
J5D006AF-1 L A	MSPU2		0.180
J5D006AF-1 L B	MSPU2		0.180
J5D006ED-1 L01	MICU2		2.000
J5D006ED-1 L02	MICU2		0.120
J5D006ED-1 L03	MICU2		0.010
J5D006ED-1 L04	MICU2		0.020
J5D006ED-1 L05	MICU2		0.010

J5D006ED-1 L06	MICU2		0.020	
J5D006ED-1 L07	MICU2		0.060	
J5D006ED-1 L08	MICU2		0.090	
J5D006ED-1 L09	MICU2		0.000	
J5D006ED-1 LL0	MICU2		0.100	
J5D006ED-1 L11	MICU2		0.030	
J5D007AA-3 L01	TMS		1.460	
J5D007AB-3 L01	TMS		0.730	
J5D007AB-3 L02	TMS		0.490	
J5D007AC-3 L01			0.730	
J5D007AC-3 L02	TMS		0.490	
J5D007AC-3 L03	TMS		0.730	
J5D007AD-3 L01	TMS		0.000	
J5D007AD-3 L02	TMS		0.000	
J5D007AE-3 L01	TMS		0.000	
J5D007AE-3 L02	TMS		0.000	
J5D007BA-3 L01	TMS		0.730	
J5D012AA-1 L01	COMPPNL		0.180	
J5D012AB-1 L01	CONV,FUSE		0.000	
J5D012AB-1 L02	CONV,FUSE		0.000	
J5D012AB-1 L03	CONV,FUSE		0.000	
J5D012AB-1 L04	CONV,FUSE		0.000	
*J5D020C-1 L6	CM3, CMU2 unit, e/w			
*J5D020C-1 L10 (artmstr1)	MSGs pack	MMD100	0.731 measured	Jun 99 a.k
L10 (artmstr2)	MSGs pack	MMD100	0.92 measured	Feb-00
*J5D020C-1 L11	NCC,net clk ctl pack	MMD101	0.981 measured	Mar-99
*J5D020C-1 L12	TMSF pack	MMC100	0.475 measured	Mar 99w.l
*J5D020C-1 L13	Osc pack	MMB100	0.135measured	Mar 99w.l
*J5D020C-1 L15	NCT2 Opt.padl' bd	MMA2	0.083measured	Mar 99w.l
*J5D020C-1 L16	NCT3 opt.padl' bd	MMA3	0.083measured	"
*J5D020C-1 L7	CM3, TMSU4 unit e/w			
*J5D020C-1 L17	TMSX pack	MMC101	0.172	Mar 99 w.l t
*J5D020C-1 L15	NCT2 opt padl' bd	MMA2	0.083	
*J5D020C-1 L16	NCT3 opt padl' bd	MMA3	0.083	
J5D020AA-1 L02	CMCU		0.120	
J5D020AA-1 L03	CMCU		0.730	
J5D020AA-1 L04	CMCU		0.170	
J5D020AA-1 L05	CMCU		0.020	
J5D020AA-1 L06	CMCU		0.010	
J5D020AA-1 L07	CMCU		0.020	
J5D020AA-1 L08	CMCU		0.060	
J5D020AA-1 L09	CMCU		0.090	
J5D020AA-1 LL0	CMCU		0.260	
J5D020AA-1 L11	CMCU		0.190	
J5D020AA-1 L12	CMCU		0.310	
J5D020AA-1 L13	CMCU		0.190	
J5D020AA-2 L1	CMCU	Shelf	0.000	
J5D020AA-2 L2,2A,2B,2C,	CMCU	SN516B	0.120	

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2D,533				
J5D020AA-2 L2E,L2F,554	CMCU	SN516C	0.100	
J5D020AA-2 L2,2A,2B,2C	CMCU			
2D,2E,2F		495MA, 495KA	0.000	
J5D020AA-2 L2,2A,2B,2C,	CMCU	410AA	0.000	
2D,2E,504				
J5D020AA-2 L2F	CMCU	410AA2	0.000	
J5D020AA-2 L2,2A,2B,2C	CMCU	TN881	0.380	
2D,2E,2F,516				
J5D020AA-2 L2,2A,2B,2C,2D,	CMCU	TN884C	1.010	
2E,2F,536,537				
540,541,551				
J5D020AA-2 L2,2A,2B,2C,2D,	CMCU	TN882	0.300	
2E,2F,517				
J5D020AA-2 L2,2A,2B,2C,2D,	CMCU	UN187	0.340	
2E,2F,521				
*J5D020AA-2 L3	CMCU	TN1034	0.330	was UN1034 11/99
J5D020AA-2 L3,520	CMCU	UN186	0.400	
J5D020AA-2 L4,526	CMCU	TN1274B	0.220	
J5D020AA-2 L5,527	CMCU	TN1275B	0.270	
J5D020AA-2 L6,519	CMCU	UN183	0.370	
J5D020AA-2 L7, 523	CMCU	UN321	0.370	
J5D020AA-2 L8,14,528	CMCU	TN1283B	0.092	
J5D020AA-2 L9,15,529	CMCU	TN1284B	0.110	
J5D020AA-2 L10,10A, 530	CMCU	TN1285B		
J5D020AA-2 L11,11A,531	CMCU	TN1286B	0.110	
J5D020AA-2 L12,522	CMCU	UN310	0.190	
J5D020AA-2 L8,9,10,10A,11,	CMCU	TN1276	0.180	
11A,505,506,507				
508,534,535,550				
J5D020AA-2 L13,538	CMCU	KAA5	0.470	
J5D020AA-2 L14,15,548	CMCU	TN1851	0.295	
J5D020AA-2 L16,16A,549,	CMCU	TN1850	0.211	
553				
J5D020AA-2 L501	CMCU	SN516	0.120	
J5D020AA-2 L502	CMCU	495KA	0.000	
J5D020AA-2 L503	CMCU	495MA	0.000	
J5D020AA-2 L509	CMCU	TN1034	0.330	
J5D020AA-2 L510	CMCU	TN1274	0.190	
J5D020AA-2 L511	CMCU	TN1275	0.260	
J5D020AA-2 L512	CMCU	TN1283	0.260	
J5D020AA-2 L513	CMCU	TN1284	0.260	
J5D020AA-2 L514	CMCU	TN1285	0.230	
J5D020AA-2 L515	CMCU	TN1286	0.070	
J5D020AA-2 L518,524	CMCU	TN884	0.470	
J5D020AA-2 L519	CMCU	UN183	0.370	
J5D020AA-2 L532	CMCU	TN884B	1.010	
J5D020AA-2 L539	CMCU	TN1406		
J5D020AB-1 L01	MSCU-2		4.280	
J5D020AB-1 L02	MSCU2		0.420	
J5D020AC-1 L01	MSPU3		1.170	

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J5D020AC-1 L02	MSPU3		1.050
J5D020AC-2 L1	MSPU3	shelf	0.000
J5D020AC-2 L2,506	MSPU3	SN516B	0.120
J5D020AC-2 L2A,509	MSPU3	SN516C	0.100
J5D020AC-2 L2,2A	MSPU3	495FB	0.000
J5D020AC-2 L3,505	MSPU3	TN856C	0.580
J5D020AC-2 L3	MSPU3	TN870	0.490
J5D020AC-2 L501	MSPU3	SN516	0.120
J5D020AC-2 L502	MSPU3	495FB	0.000
J5D020AC-2 L503	MSPU3	TN856B	0.580
J5D020AC-2 L504	MSPU3	TN870	0.490
*J5D020AD-1 L01	TMSU2	SN516,UN182 KBN1,KBN2	3.440
J5D020AD-1 L02	TMSU2		0.500
J5D020AD-1 L02A	TMSU2		0.470
J5D020AD-1 L03	TMSU2		0.780
J5D020AD-1 L03A	TMSU2		0.750
J5D020AD-1 L04	TMSU2		0.030
J5D020AD-1 L05	TMSU2		2.970
J5D020AD-1 L05A	TMSU2		1.940
J5D020AD-1 L06	TMSU2		0.000
J5D020AD-1 L07	TMSU2		1.190
J5D020AD-1 L08	TMSU2		0.120
J5D020AD-1 L09	TMSU2		3.320
J5D020AD-1 L10	TMSU2		0.030
J5D020AD-1 L11	TMSU2		2.130
J5D020AD-1 L12	TMSU2		1.190
J5D020AD-1 L13, 516	TMSU2	KBN4	0.760
J5D020AD-1 L14	TMSU2	KBN4	0.760
J5D020AD-1 L15	TMSU2		0.030
*J5D020AD-1 L16,510	TMSU2	TN1681	0.890
*J5D020AD-1 L17,511,518	TMSU2	TN1682	0.950
*J5D020AD-1 L16,512	TMSU2	BKF1	0.050
*J5D020AD-1 L501	TMSU2	SN516	0.120
*J5D020AD-1 L504	TMSU2	KBN1	0.870
*J5D020AD-1 L505	TMSU2	UN182	0.760
*J5D020AD-1 L507	TMSU2	TM888	0.690
*J5D020AD-1 L508	TMSU2	TN883	0.470
*J5D020AD-1 L514	TMSU2	SN516B	0.120
*J5D020AD-1 L515	TMSU2	KBN2	0.830
*J5D020AD-1 L616	TMSU2	SN516C	0.100
*J5D020AD-2 L2,514	TMSU2	SN516B	0.120
*J5D020AD-2 L2A,616	TMSU2	SN516C	0.100
*J5D020AD-2 L2,2A	TMSU2	410CA	0.000
*J5D020AD-2 L2,2A,505	TMSU2	UN182	0.760
*J5D020AD-2 L4,515	TMSU2	KBN2	0.830
*J5D020AD-2 L3,508	TMSU2	TN883	0.470
*J5D020AD-2 L6,507	TMSU2	TN888	0.690
*J5D020AD-2 L7,510	TMSU2	TN1681	0.890
*J5D020AD-2 L8,8A,511,518	TMSU2	TN1682	0.950

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*J5D020AD-2 L9	TMSU2	410AA	0.000
*J5D020AD-2 L9A	TMSU2	410AA2	0.000
*J5D020AD-2 L12,512	TMSU2	BKF1	0.050
*J5D020AD-2 L5,516	TMSU2	KBN4	0.760
*J5D020AD-2 L501	TMSU2	SN516	0.120
*J5D020AD-2 L502	TMSU2	410CA	0.000
*J5D020AD-2 L503	TMSU2	410AA	0.000
*J5D020AD-2 L504	TMSU2	KBN1	0.870
*J5D020AE-1 L01	EBUS	UN197,UN195 UN196	0.210
*J5D020AE-1 L02	EBUS	UN195	0.120
*J5D020AE-1 L03	EBUS	UN196	0.040
*J5D020AE-1 L04	EBUS	UN198	0.000
J5D020AE-1 L05	EBUS		0.000
*J5D020AE-1 L06	EBUS	UN195,UN196 UN197	0.210
*J5D020AE-1 L07	EBUS	UN197	0.050
*J5D020AE-1 L08	EBUS	UN310	0.190
*J5D020AE-1 L09	EBUS	UN311	0.120
*J5D020AE-1 L10	EBUS	UN312	0.060
*J5D020AE-1 L11	EBUS	UN313	0.040
*J5D020AE-1 L12	EBUS		0.430
*J5D020AE-1 L13,16	EBUS	UN503	0.290
*J5D020AE-1 L13,17	EBUS	UN504	0.140
J5D020AE-2 L1	EBUS	Shelf	0.000
J5D020AE-2 L2,502	EBUS	UN197	0.050
J5D020AE-2 L3,503	EBUS	UN198	0.000
J5D020AE-2 L4,504	EBUS	UN500	0.140
J5D020AE-2 L5,505	EBUS	UN501	0.290
J5D020AE-2 L6,506	EBUS	UN310	0.190
J5D020AE-2 L7,507	EBUS	UN311	0.120
J5D020AE-2 L8,508	EBUS	UN312	0.060
J5D020AE-2 L9,509	EBUS	UN313	0.040
J5D020AE-2 L10,510	EBUS	UN503	0.290
J5D020AE-2 L11,511	EBUS	UN504	0.140
J5D020AE-2 L512	EBUS	UN195	0.120
J5D020AE-2 L513	EBUS	UN196	0.040
*J5D020AF-1 L1,502	CMPU	SN512	0.100
*J5D020AF-1 L2,2A,2B,2C 504,510	CMPU	TN1368	0.800
*J5D020AF-1 L3,3A,3B,505	CMPU	TN1369	0.640
*J5D020AF-1 L4,4A,508,512	CMPU	TN1800	0.140
*J5D020AF-1 L5,506	CMPU	TN1683	0.680
*J5D020AF-1 L5,507	CMPU	TN1684	0.500
*J5D020AF-1 L509	CMPU	SN516B	0.120
*J5D020AF-1 L513	CMPU	SN516C	0.100
J5D020AF-2 L1	CMPU	Shelf	0.000
J5D020AF-2 L2,509	CMPU	SN516B	0.120
J5D020AF-2 L2A,2B,513	CMPU	SN516C	0.100

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J5D020AF-2 L2,2A,503	CMPU	410AA	0.000
J5D020AF-2 L2B	* CMPU	410AA2	0.000
J5D020AF-2 L3,3A,504,510	* CMPU	TN1368	0.800
J5D020AF-2 L3,3A,5,5A,505	* CMPU	TN1369	0.730
J5D020AF-2 L4,506	CMPU	TN1683	0.680
J5D020AF-2 L4,507	CMPU	TN1684	0.500
J5D020AF-2 L5,5A,508,512	* CMPU	TN1800	0.140
J5D020AF-2 L502	CMPU	SN516	0.120
J5D020AG-1 L01	TMSU3		2.080
J5D020AG-1 L02	TMSU3		2.300
J5D020AG-1 L03	TMSU3		0.690
J5D020AG-1 L04	TMSU3		RESERVED
J5D020AG-1 L05	TMSU3		0.000
J5D020AG-1 L06	TMSU3		0.000
J5D020AG-2 L1	TMSU3	shelf	0.000
J5D020AG-2 L2,514			
	TMSU3	SN516B	0.120
J5D020AG-2 L2,2A,502	TMSU3	410CA	0.000
J5D020AG-2 L2,2A,505	TMSU3	UN182	0.760
J5D020AG-2 L2,2A,504	TMSU3	KBN5	0.730
J5D020AG-2 L3,508	TMSU3	TN883	0.470
J5D020AG-2 L4,507	TMSU3	TN888	0.690
J5D020AG-2 L5,510	TMSU3	TN1681	0.890
J5D020AG-2 L6,6A,511,515	* TMSU3	TN1682	0.950
J5D020AG-2 L7,503	TMSU3	410AA	0.000
J5D020AG-2 L7A	TMSU3	410AA2	0.000
J5D020AG-2 L8	TMSU3	connector	0.000
J5D020AG-2 L9	TMSU3	connector	0.000
J5D020AG-2 L10,512	TMSU3	BKF1	0.050
J5D020AG-2 L12,616	TMSU3	SN516C	0.100
J5D020AG-2 L501	TMSU3	SN516	0.120
J5D020AH-5 L1, 1A, 1B	MSCU3	shelf	0.000
J5D020AH-5 L2,2A,501	MSCU3	SN516B	0.120
J5D020AH-5 L2B,510	MSCU3	SN516C	0.100
J5D020AH-5 L3,503	MSCU3	TN856C	0.580
J5D020AH-5 L4,504	MSCU3	TN886	0.450
J5D020AH-5 L5,502,505	MSCU3	UN173	0.300
J5D020AH-5 L6,502	MSCU3	495FB	0.000
J5D020AH-5 L7,506	MSCU3	UN25B	0.140
J5D020AH-5 L8,8A,507,508	* MSCU3	KBN10	0.380
J5D020AJ-5 L01	CM2C (shelf)		0.000
J5D020AJ-5 L02	CM2C	(sn516)	0.12/pack
J5D020AJ-5 L03	CM2C	(410aa)	0.00/pack
J5D020AJ-5 L04	CM2C	(kbnL0)	0.37/pack
J5D020AJ-5 L05	CM2C	(tn856c + microc	0.56/pack
J5D020AJ-5 L06	CM2C	(ta870)	0.49/pack
J5D020AJ-5 L07	CM2C	(unl73 + microco	0.30/pack
J5D020AJ-5 L08	CM2C	(m886)	0.45/pack
J5D020AJ-5 L09	CM2C	(tnl286b)	0.07/pack
J5D020AJ-5 L10	CM2C	(tnl285b)	0.23/pack
J5D020AJ-5 L11	CM2C	(tnl284b)	0.26/pack

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J5D020AJ-5 L12	CM2C	(tn1283b)	0.26/pack	
J5D020AJ-5 L13	CM2C	(tn1274b)	0.19/pack	
J5D020AJ-5 L14	CM2C	(tn1275b)	0.26/pack	
J5D020AJ-5 L15	CM2C	(tn1276 + microc	0.18/pack	
J5D020AJ-5 L16	CM2C	(tu1276 + microc	0.18/pack	
J5D020AJ-5 L17	CM2C	(tn1813)	0.32/pack	
J5D020AJ-5 L18	CM2C	(W1812)	0.08/pack	
J5D020AJ-5 L19	CM2C	(tal830)	0.36/pack	
J5D020AJ-5 L20	CM2C	(unl87)	0.34/pack	
J5D024AA-1 L01	DLTU2	(SN346B)	0.010	
J5D024AA-1 L02,A,B,E	DLTU2	TN1611	0.120	
J5D024AA-1 L02A	DLTU2	TN1611B	0.100	
*J5D024AA-1 L02B	DLTU2	TN1611C	0.092	Jul-99
J5D024AA-1 L03,3A,C,D	DLTU2	(TN1612)	0.200	
J5D024AA-1 L03B	DLTU2	(TN1612B)	0.150	
J5D024AA-1 L04,4A	DLTU2	TN1414	0.120	
J5D024AA-1 L05,5A	DLTU2	TN1415	0.130	
J5D024AA-1 L06,6A,6B	DLTU2	TN1421	0.400	
J5D024AA-1 L07	DLTU2	(SN730)	0.010	
J5D024AA-1 L08,8A	DLTU2	(TN401 1)	0.100	
J5D024AA-1 L501	DLTU2	(SN346B)	0.010	
J5D024AA-1 L502	DLTU2	(SN730)	0.010	
J5D024AA-1 L503,504,505,50	DLTU2	(TN 1611)	0.120	
J5D024AA-1 L507	DLTU2	(TN161 IB)	0.100	
J5D024AA-1 L508,509,510,51	DLTU2	(TN1612)	0.200	
J5D024AA-1 L512	DLTU2	(TN1612B)	0.150	
J5D024AA-1 L513,514	DLTU2	JN1414)	0.120	
J5D024AA-1 L515,516	DLTU2	JN1415)	0.130	
J5D024AA-1 L517,518,519	DLTU2	JN1421)	0.400	
J5D024AA-1 L520,521	DLTU2	(TN401 1)	0.100	
*J5D061A-1				
7R/E Packet Driver Solution				
Cabinet				
*J5D061AA-1 L2, L2A	RAC	PM4-SMM	1.5 measured	Apr-99
*J5D061AA-1 L3, L3A	RAC	PM4-4T1-98M	1.5 measured	Apr-99
		QuadT1		
*J5D061AA-1 L4, L4A	RAC	PM4-3E1-98M	1.5 measured	Apr-99
*J5D061AA-1 L5,L5A	RAC	PM4-STS1	1.5 measured	Apr-99
*J5D061AA-1 L6	RAC	PM4-T3-ATM	1.500	
*J5D061AA-1 L7	RAC	PM4-E3-ATM	1.500	
*J5D061AA-1 L8	RAC	PM4-PCTFI	1.500	
KS-20816-L1A	IVERTER		0.25 (STANDBY MODE)	
KS-20816-L1A	IVERTER		21.00 (ACTIVE MODE, DC CURRENT)	
WP-91652, L20	IVERTER		0.18 (STANDBY MODE)	
WP-91652, L20	IVERTER		28.80 (ACTIVE MODE, DC CURRENT)	
WP-91652, L50	IVERTER		0.35 (STANDBY MODE)	
WP-91652, L50	Inverter		129.00(Active Mode, DC current)	

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WP-93388, L10	Inverter		0.25(STBY mode) 30.00 (Active Mode)
J3T061A-1 L1	3B21D	KLW31	1.600
J3T061A-1 L1	3B21D	410AA	0.000
J3T061A-1 L1	3B21D	KBN10	0.380
J3T061A-1 L1	3B21D	TN1820	1.770
J3T061A-1 L1	3B21D	TN983	0.240
J3T061A-1 L1	3B21D	UN33D	0.170
J3T061A-1 L1	3B21D	TN1821	0.170
J3T061A-1 L1	3B21D	KBN15	0.650
J3T061A-1 L1	3B21D	UN375	1.000
J3T061A-1 L1	3B21D	TN2116	0.420
J3T061A-1 L1	3B21D	UN373	0.840
J3T061A-1 L1	3B21D	UN377	0.170
J3T061A-1 L2	3B21D	KBN15	0.650
J3T061A-1 L5	3B21D	KBN15	0.650
J3T061A-1 L6	3B21D	UN379	1.200
J3T061A-1 L9	3B21D	410AA	0.000
J3T061A-1 L10	3B21D	410AA	0.000
J3T061A-1 L17	3B21D	KBN10	0.380
J3T061A-1 L17	3B21D	TN1820	1.770
J3T061A-1 L17	3B21D	410AA	0.000
J3T061A-1 L18	3B21D	410AA	0.000
J3T061A-1 L19	3B21D	KBN10	0.380
J3T061A-1 L19	3B21D	TN1820	1.770
J3T061A-1 L19	3B21D	410AA	0.000
J3T061A-1 L20	3B21D	410AA	0.000
J3T061A-1 L21	3B21D	KLW32	1.200
J3T061A-1 L22	3B21D	KLW40	1.200
J3T061A-1 L23	3B21D	KLW48	1.200
J3T061A-1 L24	3B21D	410AA	0.000
J3T061A-1 L24	3B21D	TN2116	0.420
J3T061A1 L24	3B21D	UN373	0.840
J3T061A-1 L25	3B21D	KLW64	1.560
J3T061A-1 L26	3B21D	KLW128	1.560
J3T061A-1 L36	3B21D	UN933	0.120
J3T061A-1 L36	3B21D	UN583	0.300
J3T061A-1 L37	3B21D	UN580	0.420
J3T061A-1 L38	3B21D	410AA	0.000
J3T061A-1 L38	3B21D	UN580	0.420
J3T061A-1 L50	3B21D	UN580B	0.500
J3T061A-1 L100	3B21D	UN33D	0.170
J3T061A-1 L101	3B21D	TN74B	0.150
J3T061A-1 L102	3B21D	TN1839	0.220
J3T061A-1 L103	3B21D	TN82B	0.330
J3T061A-1 L104	3B21D	UN376	1.000
J3T061A-1 L105	3B21D	UN375	1.000
J3T061A-1 L106	3B21D	TN75C	0.220
J3T061A-1 L107	3B21D	TN1420	0.100
J3T061A-1 L108	3B21D	UN376B	0.500
J3T061A-1 L109	3B21D	UN375B	0.500

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J3T061 A-1 L110	3B21D	UN582B	0.780	
J3T061A-1 L111	3B21D	UN933	0.120	
*J3T061A-1 L112	3B21D	UN375F	0.500	Aug-99
J3T061A-1 L113	3B21D	UN582	0.300	
J3T061A-1 L119	3B21D	UN375C	0.500	
J3T061A-1 L121	3B21D	UN375D	0.500	
J3T061A-1 L122	3B21D	UN376C	0.500	
*J3T061A-1 L124	3B21D	UN375E	0.500	Aug-99
J3T061A-1 L125	3B21D	UN376E	0.460	
J3T061A-1 LAP	3B21D	TN983	0.240	
J3T061A-1 LAU	3B21D	TN1820B	0.650	
J3T061A-1 LAU	3B21D	TN1821B	0.700	
J3T061A-1 LAU	3B21D	UN373B	0.290	
J3T061A-1 LAU	3B21D	UN375B	0.500	
J3T061A-1 LAV	3B21D	TN1820B	0.650	
J3T061A-1 LAW	3B21D	UN373B	0.290	
J3T061A-1 LBX	3B21D	UN375C	0.500	
J3T061A-1 LBY	3B21D	UN375D	0.500	
J3T061A-1 LDD	3B21D	TN1820C		
J3T061A-1 LDL	3B21D	TN1820C		
J3T061A-1 LDS	3B21D	TN1820D	1.560	
J3T061A-1 LDS	3B21D	TN1821C	0.140	
J3T061A-1 LDT	3B21D	UN375E	0.640	

*J8G000BA-1, L10	PCDX data exchange	FCFD100	0.260	
	Fiber Com Data			Oct-99
	(for XAIU)			
L20		FCD110	0.260	
*J8G000AA-1 various lists	AIU	See Guidelines for determining AIU current drains		

the following 7r/e units given (typ) current drains
assumed at 60% load,80% efficiency @-52vdc

*J7R000A-1 L10 R.1 (Packet Local Solution)	Fabric Cabinet CAJUN M770 e/w ED7R001-30 G1,2,3,4,5 modules	10.6, measured partial'y eqpt'd modules
*J7R000A-1 L21 (Packet Local Solution)	Fabric Cabinet Magnum600ES hub ED7R002-30 G2	
*J7R000A-1 L22 (Packet Local Solution)	Fabric Cabinet Magnum40E Hub ED7R002-30 G3	0.200 measured

*J7R000AA-1 L1,3 (Packet Local Solution)	3 Fans unit	0.75<25C deg	
*J7R000AA-1 L2,4 (Packet Local Solution)	6 Fans unit	1.5<25C deg	
*J7R000Z-1 L2 (Packet Local Solution)	Solution Sys. Models LineAccessGateway (LAG)	e/w AIU'sDAC,Line packs,traffic dependent see guidelines for determining AIU current drains 5.4 (typ)	
*J7R000Z-1 L3 (Packet Local Solution)	Solution Sys Models 2 LAG	"	
*J7R001A-1 L10 (Packet Local Solution)	TAG Cabinet MMCX	not in USE	
*J7R002A-1 L1 (Packet Local Solution)	MultMedia Resource Server Cabinet 2 MMRS 2 Hub	5.7,measured per MMRS (6.1 typ per MMSR) 0.3 mesr'd per hub (0.4 tpy per hub)	
*J7R002A-1 L3 (Packet Local Solution)	MMRS Hub	5.7measured per MMRS (6.1 typ MMRS) 0.3 idle mesr'd per hub (0.4 tpy per hub)	
*J7R003A-1 L10 (Packet Local Solution)	OneLinkMgr 2 ProxyServer (NetraT1120)	4.1 measured per NetraT (5.4 typ per NetraT)	
*J7R003A-1 L20 (Packet Local Solution)	OneLink Mgr EMS server (NetraT1120)	4.1 idle measured	5.4 typ
*J7R003A -1 L30 (Packet Local Solution)	AWS server (NetraT1120)	4.1 idle measured	5.4 typ
*J7R003A -1 L40 (Packet Local Solution)	ADSL BB EM (NetraT1120)	4.1 idle measured	5.4 typ
*J7R003-1 L50 (Packet Local Solution)	Onelink Mgr 2 Lucent Mgd Firewall (LMF)	N/A for measuring	3.8 typ per Firewall

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*J7R003A-1 L60 (Packet Local Solution)	Onelink Mgr PSAX100,Broadbd Access Unit,OC3		1.5 measured	1.5 typ
*J7R003A-1 L61 (Packet Local Solution)	Onelink Mgr PSAX100,Broadbd Access Unit,DS3		1.5 measured	1.5 typ
*J7R003A-1 L70 (Packet Local Solution)	OnelinkMgr Hub Magnum1024			0.4 typ
*J7R003A-1 L90 (Packet Local Solution)	Hub Xyplex		0.7 measured	0.4 typ
*J7R004A-1 (Packet Local Solution)	Multi Service Solution (MSS)			
L10	Hub,Xyplex			0.4 typ
L21	Clock distributor			
LF3,F4	3A Simplified Message System Interf. Translator			
L35	2kva inverter		0.000	
*J7R010A-1 (Packet Local Solution) (Packet Tandem Solution)	TAG, PVG			
L2, 2A	TAG, ATM emulation	LYB7	1.850	
L2, 2A	TAG,shelf controller	LYB12	2.074	
L2	TAG, STS-1	LYB6	1.590	
L2A	TAG,DSPLI/DSP line interface	LYB13	1.920	
L2,2A	TAG, ECPLI	LYB5	2.120	
L2,2A	TAG,PS	LEF3		
L2A	TAG,pend	LEF4	0.000	
L3,3A	DDM, DS1	BBF1B		
L3,3A	DDM,TimingGen S	BBF2B		
L3,3A	DDM2000,STS-1	BBG6		
L3,3A	DDM2000,SYSCT	BBG8B		
L3,3A	DDM2000,OHCTL	BBG9B		
L10,11,15	NETRA T1120			5.4 typ
L10,11,15	X1032A ckt Pack			
L50	TAG, STS-1	LYB6	1.590	
L51	TAG,DS3	LYB21	1.480	
L50,51,52,53	TAG,DSPLI	LYB11	1.980	

Guidelines for Determining AIU (J8G000AA-1) current drain

1. Worst Case AIU Current Drain

Tables 1, 2, and 3 illustrate that the worst case AIU current drain on any feeder never exceeds 15.6 amps. At worst case current drain, the current on one AIU feeder at 15.6 amps, the current on the other feeder is 4.4 amps. The total AIU current drain (both feeders) never exceeds 20 amps.

2. AIU feeder Sizing

Each feeder of the AIU should be engineered to carry 15.6 amps worst case if expected to encounter worst case traffic.

3. Power Plant Sizing

Since the maximum current any AIU can draw is 20 amps, this number should be used to size the power plant.

4. Global Power Distribution Frame (GPDF) Assignments

A GPDF panel contains 6 blocks of fuses. Each block contains four 25 amp fuses. If two AIUs were assigned to the same fuse block, the worst case current flowing through the fuse block is 40 amps. There is no problem with assigning two AIU units to the same GPDF fuse block.

5. Conclusion

1. Each AIU requires two secondary power feeders.
2. The total current drain for any AIU does not exceed 20 amps per unit.
3. The worst case current drain on any feeder does not exceed 15.6 amps per feeder.
4. There is no problem with assigning two AIUs to the same GPDF fuse block.

6. Assumptions

1. The attached tables exclude the fan and alarm circuit current (0.4A).
2. The Nominal current drain (L1) is approximately the same as the worst case current drain (L2). The AIU consumes constant current regardless of the battery voltage while operating between -39.5 to -57.0V. List 1 Current Drain and List 2 Current Drain are the same.
3. All AIUs that share the same RG use the same bus (A or B). Any single AIU has both feeders connected to the same bus (A or B).
4. Table 3 illustrates off hook circuits.

Table 1: AIU Current Drain for 20 Application Packs. Includes 20 Application Packs and zero ringing generators.

PIDBS	TIME SLOTS	CCS (20)	I (20)
0	0	0.0	1.6
2	64	3.6	4.4
4	128	7.2	7.2
6	192	10.8	10.0

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8	256	14.4	12.8
10	320	18.0	15.6
12	384	21.6	15.6

Table 2: AIU current Drain for 16 Application Packs:
Includes 16 line packs
and two Ringing Generator packs.

PIDBS	TIME SLOTS	CCS(16)	I(16)
0	0	0.0	1.8
2	64	4.5	4.6
4	128	9.0	7.4
6	192	13.5	10.2
8	256	18.0	13.0
10	320	22.5	13.0
12	384	27.0	13.0

Note:

256TS = Maximum Time Slots on a feeder in an RG equipped unit

Table 3:

CCS(20)	Lines/feeder(0)	Lines/feeder(1)	feeder(0) current	feeder(1) current	total/unit
0.0	0	0	1.6	1.6	3.2
3.0	53	0	3.9	1.6	5.5
6.0	107	0	6.2	1.6	7.8
9.0	160	0	8.6	1.6	10.2
12.0	213	0	12.9	1.6	14.5
15.0	267	0	13.2	1.6	14.8
18.0	320	0	15.6	1.6	17.2
21.0	320	53	15.6	3.9	19.5
24.0	320	64	15.6	4.4	20.0
27.0	320	64	15.6	4.4	20.0
30.0	320	64	15.6	4.4	20.0
33.0	320	64	15.6	4.4	20.0
36.0	320	64	15.6	4.4	20.0

7. AIU individual circuit pack current drain:

The following equations are for individual circuit pack. These equations assume short loops which significantly increase the total power consumption of the AIU.

*J8G000AA-1 L2,L2A/L2B/L10/L11,L11A. DAC100/DAC100B/DAC630/DAC624
(Common Data Control)

0.31

*J8G000AA-1 L71 DAC120 (XAIU,incorporated with PDXU J8G000BA-1)

0.20

(measured)

0.40

(max,)/

w/PIDB

PICB

*J8G000AA-1 L15 DAC192 (Comm Data Control for LAG, 7R/E PLS) 0.50

*J8G000AA-1 L16 DAC193 (Comm Data Control for LAG,7R/E PLS) 0.50

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J8G000AA-1 L3/L3A RGP100/RGP100B (Ring Generator)
{14 + [(Vrms squared /2800)X 896 X (CCS/36)/24]}/52.08

14 (watts at idling)
Vrms (90 volts for U.S.)
2800 (ohms)
896 (# of lines RG services , half the lines in 3 AIU units)
CCS (Call per second) CCS/36= Erlang
24 (statistical adjustment)

52.8 (volts)

J8G000AA-1 L4/L4A/L4B LPZ100/LPZ100B/LPZ100C (AIU-analog, Line pack
POTS)

(6.3/52.08) + [0.046 X CCS/36 X 32]

6.3 (watts, on hook per pack)
52.8 (volts)
0.46 (amps, current limit of each line)
32 (lines per pack)

J8G000AA-1 L5/L5A LPP100/LPP100B (AIU-analog, Line pack POTS-PPM)

(2.5/52.08) + [0.046 X CCS/36 X 24]

2.5 (watts, on hook per pack)
24 (lines per pack)

J8G000AA-1 L6/L6A LPC100/LPC100B (AIU-analog, Line pack POTS coin)
(5.2/52.08) + [0.046 X CCS/36 X 16]

5.2 (watts, on hook per pack)
16 (lines per pack)

*J8G000AA-1 L7 LPZ120 (AIU-analog , Line Pack POTS-PCM)

*J8G000AA-1 L8/L8A LPU112 (AIU-ISDN, U-Interface, remote power,
international application)

without regeneration 0.59
with regeneration 1.46

J8G000AA-1 L9 LPU116 (AIU-ISDN, U-interface w/o remote power, U.S.)
Current drain is independent of call load.

with sealing current 0.28
without sealing current 0.135

measured at -39.5 vdc
with sealing current 0.28
without sealing current 0.159

J8G000AA-1 L13 TAP100 (AIU-analog, Test Access Pack) 0.28 amp

*J8G000AA-1 L51 LPA900 (Line pack w/DS3 interface to ATM)~0.40 amp

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	(BAIU)		
*J8G000AA-1	L52/L52A, LPA400/LPA400B	(Line pack w/4 ADSL-DMT Interface)	0.433 amp
	(BAIU)		
*J8G000AA-1	L53 LPA910	(Line Pack w/E3 interface to ATS)	~0.40 amp
*J8G000AA-1	L54 LPA930	(Optical interface unit)	0.32 amp
*J8G000AA-1	L? LPA931	(optical interface unit)	0.32 amp

PROTECTED AC CURRENT DRAINS AND HEAT RELEASE

VT100A VIDEO TERMINAL (KS-22497,L1)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115V	2.20 A	150 W	250 VA	150 W

COLORSCAN 10 VIDEO TERMINAL (KS-22921,L1)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.85 A	100 W	100 VA	100 W

5425 VIDEO TERMINAL

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.43 A	49 W	49 VA	49 W EST

VIDEO TERMINAL (KS-23554)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
?	?	?	?	

TELETYPE ROP PRINTER 40P2F

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	2.00 A	230 W	230 VA	230 W

TELETYPE ROP PRINTER 53 10

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.57 A	66 W	66 VA	66 W EST

AMA 2556 DATA SET

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.085 A	9.8 W	9.8 VA	9.8 WEST

SCC DATA SET 201C (EACH OF 2 REQ'D)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.23 A	27 W	27 VA	27 W

SCC DATA SET 829A (EACH OF 2 REQ'D) (KS-22100,L1)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115V	.12 A	14 W	14 VA	14

5ESS SWITCH PROTECTED AC FEATURES

REQUIRED FEATURES WITH THE VT100 VDT AND ONE OF THE FOLLOWING;

TOTAL CABINET CURRENT DRAINS

AMATS	6.80 A
AMATS (DIAL-UP)	7.65 A

REQUIRED FEATURES WITH THE KS-22921, LI COLOR VDT AND ONE OF THE FOLLOWING;

TOTAL CABINET CURRENT DRAINS

AMATS	5.45 A
AMATS (DIAL UP)	6.30 A

TOTAL RATED OUTPUT OF THE PROTECTED AC INVERTER WP-91652,L20 IS 8.33 AMPS. THE CURRENT "CREST FACTOR" OF 2.8 TIMES RATED RMS CURRENT FOR THIS INVERTER MUST NOT BE EXCEEDED; THIS MEANS THAT THE PEAK CURRENT PER HALF SINE WAVE OF LOAD CURRENT MUST NOT EXCEED 23.3 AMPERES. THE CREST FACTORS FOR POWER SUPPLIES AND VIDEO DISPLAYS ARE VERY HIGH. WHEN PLACING SUCH LOADS ON THE INVERTER, THE MAXIMUM INVERTER AMMETER READING SHOULD BE NO MORE THAN 5 OR 6 AMPERES, SINCE THE AMMETER IS AN AVERAGE-READING INSTRUMENT AND DOES NOT READ TRUE RMS CURRENT. IF IN DOUBT, CALL FOR CONSULTATION.

5ESS SWITCH PROTECTED AC FEATURES

ALWAYS REQUIRED:

FEATURE	DATA SET	QUANTITY	CURRENT DRAIN
SCCS	2024	2	.30A (TOTAL FOR 2)
	829	2	.01A (TOTAL FOR 2)
	64A2 MTG	1	.65A
	46A2MTG	1	.01A
FAN	KS-2210OLI	1	1.20A
PRINTER	5310	1	.57A

SUB-TOTAL = 2.74 A

ONE OF THE FOLLOWING:

AMATS		
DATA SET	QUANTITY	CURRENT DRAIN
2096	1	.45A
829	1	.01A

SUB-TOTAL=.46A

AMATS (DIAL-UP)		
DATA SET	QUANTITY	CURRENT DRAIN
2048-63A2	1	1.18A
48FR1-59AI	1	.03A
43ADIALER	1	.03A
TRANSFORMER	1	.07A

SUB-TOTAL 1.31 A

VT100(B&W) VIDEO DISPLAY	
QUANTITY	CURRENT DRAIN
1	2.20A

COLORSCAN (COLOR) 10 VIDEO_DISPLAY	
QUANTITY	CURRENT DRAIN
1	.85A

5ESS SWITCH PROTECTED AC FEATURES

AWS Power Information for Protected AC Equipment (120V)

FEATURE	QUANTITY	CURRENT DRAIN
SPARC Station IPX	1	6.0A
DAT Tape Unit	1	0.5A
KS-23996LI Monitor	Controller and Keyboard	1.6A
NCR 6417 Printer	1	0.9A
3810MODEM	1	0.5A
Optional Growth Disk		0.8A
577 Hi Resolution Printer		3.0A

All AC current values given in RMS.

E911 Power Information for Protected AC Equipment
(120V)

INFORMATION SOURCE	PERIPHERAL	CURRENT DRAIN
KS-22100LI	KS-22100LI (BLOWER)	1.196A
AT&T User Guide	577 Printer	1.196A
705MT User Guide	705MT	0.52A
BSP 590-010-201	46A2 MULT	0.01 1A
BSP 590-010-201	829ALIA	0.01A
3000 Series Manual	3000 Series Carrier	1.496A
COMMOSPHERE 3800 MODEM	3 811 SD MODEM	0.036A
User's Guide	9-Track Tape Drive	2.14A
713 D11 User's Guide	7BD11	0.2A
201-601-600	Alarm Relay Unit	0.043A
533-700-100	NTIU Network Terminator	0.013A

PROTECTED AC CURRENT DRAINS AND HEAT RELEASE

VT100A VIDEO TERMINAL (KS-22497,L1)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115-V	2.20 A	150 W	250 VA	150 W

COLORSCAN 10 VIDEO TERMINAL (KS-22921,L1)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.85 A	100 W	100 VA	100 W

5425 VIDEO TERMINAL

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.43 A	49 W	49 VA	49 WEST

VIDEO TERMINAL (KS-23554)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
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PROTECTED AC CURRENT DRAINS AND HEAT RELEASE

SCC DATA SET 201C (EACH OF 2 REQ'D)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.23 A	27 W	27 VA	27 W

SCC DATA SET 829A (EACH OF 2 REQ'D) (KS-22100,L1)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	.12 A	14 W	14 VA	14W

OSPS (MODIFIED 7506 ISDN DATA SET)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATT
0	0	0	0	0

FAN (MISC CAB)

VOLTS	AMPS	WATTS	VOLT-AMPS	IN WATTS
115 V	1.20 A	140 W	172 VA	140 W

5ESS SWITCH PROTECTED AC FEATURES

REQUIRED FEATURES WITH THE VT100 VDT AND ONE OF THE FOLLOWING;

TOTAL CABINET CURRENT DRAINS

AMATS	6.80 A
AMATS (DIAL-UP)	7.65 A

REQUIRED FEATURES WITH THE KS-22921, LI COLOR VDT AND ONE OF THE FOLLOWING;

TOTAL CABINET CURRENT DRAINS

AMATS	5.45 A
AMATS (DIAL UP)	6.30 A

TOTAL RATED OUTPUT OF THE PROTECTED AC INVERTER WP-91652,L20 IS 8.33 AMTS. THE CURRENT "CREST FACTOR" OF 2.8 TIMES RATED RMS CURRENT FOR THIS INVERTER MUST NOT BE EXCEEDED; THIS MEANS THAT THE PEAK CURRENT PER HALF SINE WAVE OF LOAD CURRENT MUST NOT EXCEED 23.3 AMPERES. THE CREST FACTORS FOR POWER SUPPLIES AND VIDEO DISPLAYS ARE VERY HIGH. WHEN PLACING SUCH LOADS ON THE INVERTER, THE MAXIMUM INVERTER AMMETER READING SHOULD BE NO MORE THAN 5 OR 6 AMPERES, SINCE THE AMMETER IS AN AVERAGE-READING INSTRUMENT AND DOES NOT READ TRUE RMS CURRENT. IF IN DOUBT, CALL FOR CONSULTATION

5ESS SWITCH PROTECTED AC FEATURES

ALWAYS REQUIRED:

FEATURE	DATA SET	QUANTITY	CURRENT DRAIN
SCCS	2024	2	.30A (TOTAL FOR 2)
	829	2	.01A (TOTAL FOR 2)
	64A2 MTG	1	.65A
	46A2MTG	1	.01A
FAN	KS-2210OLI	I	1.20A
PRINTER	5310	1	.57A

SUB-TOTAL = 2.74 A

ONE OF THE FOLLOWING:

AMATS

DATA SET	QUANTITY	CURRENT DRAIN
2096	1	.45A
829	1	.01A

SUB-TOTAL=.46A

AMATS, (DIAL-UP)

DATA SET	QUANTITY	CURRENT DRAIN
2048-63A2	1	1.18A
48FRI-59A1	1	.03A
43 ADIALER	1	.03A
TRANSFORMER	1	.07A

SUB-TOTAL 1.31 A

VT100(B&W) VIDEO DISPLAY	QUANTITY	CURRENT DRAIN
	I	2.20A

COLORSCAN (COLOR) 10 VIDEO DISPLAY	QUANTITY	CURRENT DRAIN
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5ESS SWITCH PROTECTED AC FEATURES

AWS Power Information for Protected AC Equipment (120V)

FEATURE	QUANTITY	CURRENTDRAIN
SPARC Station IPX	1	6.0A
DAT Tape Unit	1	0.5A
KS-23996LI Monitor	Controller and Keyboard	1.6A
NCR 6417 Printer	1	0.9A
3810 MODEM	1	0.5A
Optional Growth Disk	1	0.8A
577 Hi Resolution Printer	1	3.0A

All AC current values given in RMS.

E911 Power Information for Protected AC Equipment (120v)

INFORMATION SOURCE	PERIPHERAL	CURRENT DRAIN
KS-22100LI	KS-22100LI (BLOWER)	1.196A
AT&T User Guide	577 Printer	1.196A
705MT User Guide	705MT	0.52A
BSP 590-010-201	46A2 MULT	0.01 IA
BSP 590-010-201	829ALIA	0.01A
3000 Series Manual	3000 Series Carrier	1.496A
COMMOSPHERE 3800 MODEM	3811 SD MODEM	.0036A
User's Guide	9-Track Tape Drive	2.14A
7B D11 User's Guide	7B D11	0.2A
201-601-600	Alarm Relay Unit	0.043A

ESSENTIAL AC CURRENT DRAINS AND HEAT RELEASE

RECENT CHANGE/VERIFY VIDEO TERMINAL BLACK & WHITE VT100A VDT (KS-22497,L1)	115V	2.20A	150W	250V	150W
COLORSCAN 10 COLORVDT VIDEO TERMINAL (KS-22921,L1)	115 V	.85 A	100 W	100 VA	100 W
COMPUTER 520W 3B20-400	115 V	4.52 A	520 W	520 VA	
COMPUTER PC6300	115 V	1.30 A	150 W	150 VA	150W
COMPUTER PC7300	115 V	2.14 A	250 W	250 VA	250 W
RC/VFY VIDEO TERMINAL TI OMNI 800 MOD 810	115 V	2.20 A	200 W	250 VA	200 W
VIDEO DISPLAY UNIT 5425 or 4425 or 615CMT (AT&T VERSION)	115 V	0.43 A	50 W	50 VA	50 W
VIDEO DISPLAY UNIT 5620	115 V	0.43 A	50 W	50 VA	50 W
PRINTER 40P2F TELETYPE ROP	115 V	2.00 A	230 W	230 VA	230 W
PRINTER T300 TELETYPE 132 COLUMN	115 V	.67 A	78 W	78 VA	78W
PRINTER 5310	115 V	0.57 A	66 W	66 VA	66 W
TAPE MACHINE W	115 V	1.74 A	170 W	200 VA	170 W
3B20D T/DC KEYSTONE H MODEL 92181 TAPE MACHINE KS-23113,1,10	120 V	4.2 A	400 W		400 W

ESSENTIAL AC CURRENT DRAINS AND HEAT RELEASE

TAPE MACHINE 3B20D T/DC KEYSTONEIII MODEL 92185	115 V	3.25 A	375 W	374 VA	375 W
FAN (MISC CAB) (KS-22100,L1)	115 V	1.20 A	140 W	172 VA	140 W
DATA MTG 63A2 E/W 2096 DATA UNIT	115 V	.68 A	80 W	80 VA	80W
DATAMTG59A1 E/W 48 FRI DATA UNIT	115V	.03A			
DATA MTG 64A2 E/W 8 DATA UNITS MAX	115 V	.65A	76 W	76 VA	76 W (MAX LOAD 600W)

ESSENTIAL AC CURRENT DRAINS AND HEAT RELEASE

DATAMTG40B1	115V	.06A	7W	7VA	7W
E/W 202T AT					
DATA MTG 47D2	115 V				
E/W 212ARLIA DATA SET					
DATA MTG 64P3	115 V	.65 A	76 W	76 VA	76 W
E/W 2024A AT		.15 A			
DATA MTG 77A	115 V				1 POSITION?
E/W 7500 MODEM at		7 W (est)			
DATA MTG 105A1	115 V				8 POSITIONS
E/W 2296A MODEM at		7 W (est)			
DATA MTG 106A3	115 V				8 POSITIONS
E/W 2224G MODEM at		7 W (est)			
D SET 212ARLIA	115 V	.08A	9W	9VA	9W
DSET48FR1	115V	.03A	3.7 W	3.7 VA	3.7W
D SET 2024A-L1	115 V	.30 A	35 W	35 VA	35 W MULTIPLE
	115 V	.43 A	50 W	50 VA	50 W STANDALONE
D SET 2224G					
D SET 2296					
D SET 2048A-L1	115 V	.38 A	45 W	45 VA	45W MULTIPLE
	115 V	.51 A	60 W	60 VA	60 W STANDALONE
• SET 2096A-L1	115 V	.45 A	53 W	53 VA	53W MULTIPLE
	115 V	.56 A	65 W	65 VA	65 W STANDALONE
• SET 202T-LIA	115V	.04A	4.6W	4.6VA	4.6W
• SET 829A-LIA	115V	.01A	1.2W	1.2VA	1.2W
DSET202T-LIA, & L2	115V	.06A	7W	7 VA	7 W

ESSENTIAL AC CURRENT DRAINS AND HEAT RELEASE

MODEM 9600	115 V	.70 A	80 W	80 VA	80W
MODEM 9620	115 V	.70 A	80 W	80 VA	80 W
MODEM AVANTI	115 V	.35 A	40 W	40 VA	40 W
MERLIN	115 V	1.30 A	150 W	150 VA	150 W
STA DIALER 43A	115 V	.03 A	4 W	4 VA	4 W RE-RATED M.D.
TRANSFORMERS,	115 V	.07 A	8 W	8 VA	8 W (GENERAL)
DFA SD3FO27-01	120 V	1.25 A	150 W	150 VA	150 W BUS 0
(J3F010F-1)	120 V	1.25 A	150 W	150 VA	150 W BUS 1
PRINTER 577	90-132 V	1.20 A ?	140 W	140 VA ?	140 W 47-400 HZ
PRINTER 444	90-140V	5.55 A ?	650 W	650 VA?	650 W 50 OR 60 HZ

THIS PRINTER CANNOT BE POWERED FROM THE WP-91652 INVERTER

PART OF FS 6 SHEET 76

THE FOLLOWING ARE CURRENT AND POWER DRAINS FOR 5ESS.
ALL DRAINS ARE CALCULATED AT 52.08 VOLTS AND ARE BUSY HOUR DRAINS. (Unless
Otherwise specified)

INDIVIDUAL CIRCUIT PACK DRAINS ARE MULTIPLIED BY 1.22 TO INCLUDE FASTECH
POWER UNIT LOSSES (82 % EFFICIENCY ASSUMED). SOME OBSOLETE CIRCUIT PACKS ARE
INCLUDED FOR REFERENCE PURPOSES.

CIRCUIT PACK DRAINS (* preceding ckt pack denotes
Additions/revisions)

CODE	UNIT (NAME)	SPEC	CURRENT	POWER	REMARKS
16A			.17	9.0	
16E			.17	9.0	
16F			.18	9.5	
16G			.18	9.5	
22G3-U	TRCU3		.12		
24G-U	TRCU3		.18		
2601A	TRCU3		.01		
553A	Power Pack		.70	36.6	
7A2	OSPS		1.50	??	
ABB1	C&D	3B	.49	23.4	
AJT5	LU3		0.02		
AJT5B	LU3		0.02		
AJT6	LU3		.09		
AJT6B	LU3		0.02		
AJT7	LU3		.09		EST
*AJT7B	LU3		0.02		
AJT40			.09		
AJT41	DFI		.24		
AJT50	?				
*AJT60	LU3		0.02		
AKM3			.00		TP
ALD1	14A ANN		.16	8.3	
ALD2	14A ANN		.16	8.3	
ALD3	14A ANN		.12	6.5	
AKM3			.00		TP
ANN1	DLTU		.33	16.0	
ANN3	DLTU		.24		
ANN3B	DLTU	DFI	.24		
ANN4	DLTU		.29	14.8	
ANN5	DLTU		.29	14.8	AMW 5E3
ANN5B	DLTU		.29	14.8	AMW 5E3
ANN6	DLTUE		.23	12.0	SMP AMW 5E2
ANN6B	DLTU		.17	9.1	
ANN7	DLTU		.29	14.8	AMW 5E3
ANN7B	DLTU		.29	14.8	AMW 5E3
ANN8	DLTU-E		.209		L.B PRIDE
ANN8B	DLTU-E		.209		L.B PRIDE LIST
ANN9	DLTUE		.286		L.B PRIDE LIST

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ANN9B	DLTUE		.286		L.B PRIDE LIST
ANN36			.08	4.2	
ANN36B			.08	4.2	
ANN102	DLTU-E		.10	5.0	F. Nijbroek
ANN103	DLTU-E		.11	5.5	F. Nijbroek
ANN H2	DLTU		.29	14.8	AMW 5E3
ANN H2E	DLTU R		.3	16.0	AMW 5E3
AUA11B	TFIU,NAIU 4"		1.00		W L 5E3
AUA18	TFIU,NAIU		0.00		W L 5E3
AUA19	TFIU,NAIU 4"		0.00		W L 5E3
AUA61	TFIU,NAIU 4"		0.00		W L 5E3
AUA81	TFIU,NAIU		0.00		W L 5E3
AUA83	TFIU,NAIU		0.00		W L 5E3
AUA103	TFIU,NAIU		0.05		W L 5E3
AUA104	TFIU,NAIU		0.70		W L 5E3
AUB2	TFIU,NAIU 8"			W L 5E3	
AUB3	TFIU,NAIU		0.02		W L 5E3
AUB5	TFIU,NAIU		0.02		
AUB51	TFIU,NAIU		0.00	W L 5E3	
AUB52	TFIU,NAIU		0.50	W L 5E3	
AUB53	TFIU,NAIU		0.00	W L 5E3	
AUB71	TFIU,NAIU		0.00	W L 5E3	
AUB76	NAIU				
AUB81	NAIU				
AVADTU	DCLU5				
AVAFU1	DCLU5				
AVAFU2	DCLU5				
AVA13	DCLU5				
AVA101	DCLU5				
AVA102	DCLU5				
AVB6	DCLU5				
AVB12	DCLU5				
AVB53	DCLU5				
AVB71	DCLU5				
AVB72	DCLU5				
AWH1	14A ANN		.03	0.16	
AWH11	14A ANN		.30	1.6	
BBF2B	TRCU3		.15		
BBG8B	TRCU3		.15		
BBG9	TRCU3		.09		
BKD1	NLI	SM2000 TSIU4	.08	3.84	afk
BKD2	PLI	SM2000 TSIU4	.08	3.84	afk
BKD3	NLI	TSIU4	0.08		
BKD4	CTSNS	SM2000	.053	2.50	afk
BKD5					
BKD6					
BKD7	NLI1	SM2000 TSIU4	.08	3.84	afk
BKE1	PSU2	0.043			
BKF1	COT2	TMSU2,3 (was 982YK)	.05	2.61	Tim Ross
BLD3	16A ANN				
BLD10	16A ANN				

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400B+BLD3+BLD10			.74		
BNP1	TRCU3		.18		
BNP2	TRCU3		.19		
CM285			.18	9.1	
CM321A			.18	9.1	
CM343	3MB STATIC RAM		.14	7.3	
*DAC100	AIU, comdac	J8G000AA-1 L2	0.31	16.12	
*DAC100B	AIU, comdac	J8G000AA-1 L2B	0.31	16.12	
*DAC120	XAIU comdac (Multiplexed AIU)	J8G000AA-1 L71	0.2 measured-0.4 max w/all PIDB, PICB	10.3-20.8	
*DAC192	AIU, LAG 7r/e comdac	J8G000AA-1 L15	0.5	26	
*DAC193	AIU, LAG 7r/e comdac	J8G000AA-1 L16	0.5	26	
*DAC624	EAIU, comdac (expansion AIU)	J8G000AA-1 L11, 11A	0.31	16.12	
*DAC630	RAIU, comdac (Remote AIU)	J8G000AA-1 L10	0.31	16.12	
DLTU-E	DLTU DFI		.24	12.5	
ED5D715	SMPU/CDM				
ED5D717	SMPU	SM2000			
ED5D718	SMPU	SM2000			
ED5D719		SM2000			
ED5D720		SM2000			
F61870					
F61870-DI	ISLU Z card		.05	2.4	MPH TMM 5E3
F61870-R	ISLU		.03	1.6	MPH TMM 5E3
F61871	ISLU		.06	3.1	MPH TMM 5E3
F61872	ISLU T card		.02	.8	TJJS 5E3
F61873	ISLU		.10	5.3	TJJS 5E3
F61874	ISLU CONTROL				
F61875	ISLU		.50	29.9	M F 5E3
F61876	ISLU		.59	30.5	MLB 5E3
F61877	ISLU		.68	35.6	HFJ 5E3
F61959	ISLU				
F61878	ISLU		.05	2.8	MPH 5E3
*FCD100	PDXU PCT data ex unit	J8G000BA-1	0.25	13.02	DYK, 11/99
*FCD110	PDXU	J8G000BA-1	0.25	13.02	DK 11/99
KAA5	EBUS		.47	24.5	
KBN1	TMSU2		.87	45.1	ALK PEM 6

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KBN2	TMSU2		.83	43.1	ALK PEM 6
KBN3					
KBN4	TMSU		.76	39.4	ALK PEM 6
KBN5	PSU	TMSU3	.73	38.1	
*KBN6	IDCU	J5D003FL	.84	43.74	k.m
*KBN6B	IDCU	J5D003FL	.84	43.74	k.m
KBN7	IDCU	J5D003FL	.00	00.0	
*KBN8	SMPU4/SM2000	J5D003NA	.54	28.12	rck
*KBN8B	SMPU4/SM2000	J5D003NA	.54	28.12	
KBN10	CMU/3B21D		.38	19.5	
KBN10	CMU		.38	19.5	
KBN15		3B21D	0.65		10/9/95 sue
KBN17	3B21D/MCTU3		0.40		
KBN18	3B21D/MCTU3		0.48		
KBN19	3B21D/MCTU3		0.55		
KBN20	3B21D/MCTU3		0.40		
KBN20B	3B21D/MCTU3		0.40		
KBN21	MCTU3/SM2K		0.48		
KBN21B	MCTU3/SM2K		0.48		
KBN22	3B21D/MCTU3		0.55		
KBN22B	3B21D/MCTU3		0.55		
KCB1	ISLU Z CARD (NETHERLD)				
KCB2	ISLU Z CARD (U.K.)				
KCB3	ISLU Z CARD (TAIWON)		.0000082 + .042(AVE CCS/36) DJS		
KCB4	ISLU Z CARD (R KOREA)		.0000082 + .042(AVE CCS/36) DJS		
KCB5	ISLU Z CARD (PR CHINA)		.0000082 + .042(AVE CCS/36) DJS		
KCB6	ISLU Z CARD (DOMESTIC)		.00839 + .059(CCS/36)	RGS	
KCB10	ISLU U CARD		.033		CWK
KCB6B			.0577		A S
KCB7	ISLU T CARD		.00351	0.18	RGS 5E3
KCB8	ISLU U CARD Double		.0367	1.91	TMM 5E3
KCB9	ISLU U CARD Card (INCLUDED IN KCB8)				TMM 5E3
KCB11	ISLU Z CARD (SAUDI)				
KCB17	ISLU (ANSI) U CARD		.056	2.94	KWH
KCB12	ISLU Z CARD (SAUDI PPM)				
KCB13	ISLU Z CARD (SINGA)				
KCB15	ISLU Z CARD (EXPORT)				HOWARD
KCB14	ISLU Z CARD (SING PPM)				

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	ANALOG				
KCB15 ?	ISLU Z CARD (EXPORT)				HOWARD
KCB16	ISLU AUX PWR		.30	15.6	TMM 5E3
KCB17	ISLU (ANSI) U CARD		.056	2.94	KWH
KCD2	ISLU L GP PWR		.74	38.5	TMM 5E3
KCD3B	ISLU LGCP CONTR		.0626	3.26	RGS 5E3
KCD3B	ISLU LGC		.024	1.23	
KLU1	TSI	SM2000	1.04	50.0	
KLU1B TSI	SM2000		0.96		CPSM
KLU2	DNU-S		0.625	31.25	
KLU3	DNU-S		0.625	31.25	
KLW31		3B21D	1.60		10/9/95 sue
KLW32		3B21D	1.20		10/9/95 sue
KLW40		3B21D	1.20		10/9/95 sue
KLW48		3B21D	1.20		10/9/95 sue
KLW64		3B21D	1.56		10/9/95 sue
KLW128		3B21D	1.56		10/9/95 sue
KTU1	DNU-S		0.85	42.50	
*KTU1B	DNU-S		0.43	22.39	05/03/99 c.t
KTU2	DNU-S		0.67	33.50	
*LPA400	BAIU,ADSL	J8G000AA-1 L52	0.433	22.51	
*LPA400B	BAIU,ADSL	J8G000AA-1 L52A	0.433	22.51	
*LPA900	AIU-DS3/ATM	J8G000AA-1 L51	0.4	20.8	11/99
*LPA910	AIU-E3/ATM	J8G000AA-1 L53			
*LPA930	OIU (optical Interface)	J8G000AA-1 L54	0.32	16.64	02/00 j.1
*LPA931	OIU (optical Interface)	J8G000AA-1 L ?	0.32	16.64	02/00
*LPU112 w/o regeneration	AIU- ISDN,Int'l	J8G000AA-1 L8,8A	0.59	30.7	10/98
*LPU116 w/regenera-tion	AIU-ISDN Int'l	J8G000AA-1 L9	1.46	76	10/98
*LPU116 w /sealing current	AIU-ISDN	J8G000AA-1 L9	0.28	14.6	10/98
*LPU116 w/o sealing current	AIU-ISDN	J8G000AA-1 L9	0.135	7.03	10/98
*LPZ120	AIU,PCM	J8G000AA-1 L7			
* for other traffic dependent Line Packs not shown here	See FS3 Guidelines for determining AIU ckt packs.				
*MMA2	NCT2/optical Paddle board	CM3,5E2000 J5D020C-1	0.083(idle, measured)	4.32	,33/99 w.1

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*MMA3	NCT3/optical Paddle bd	CM3,5E2000 J5D020C-1	0.083(idle, measured)	4.32	W.L 3/99
*MMB100	Netwk Clk Osc	CM3,5E2000 J5D020C-1 L16	0.22 (cold start) 0.135(idle, measured)	11.46	b.f 3/99
*MMC100	Time Multpx Sw Foundation	CM3,5E2000 J5D020C-1	0.475(idle, measured)	24.7W	w.l,33/99
*MMC101	Time Multpx Sw Expansion	CM3, 5E2000 J5D020C-1	0.172(idle, mesured)	8.94W	w.l 33/99
*MMD100	Message Sw	CM3,5E2000 J5D020C-1	0.73 (typ) artmstr 1 0.92 (typ) artmstr 2	38.0 47.8	a.k 06/99 02/00
*MMD101	Netwk Clk Control	CM3, 5E2000 J5D020C-1	0.98 (idle measured)	50.96	g.k 3/99
MPA1/MPA1B Z-ANA	ISLU2 ACTIVE		.75	39.0	
	IDLE		.10	5.2	
			0.12 + (0.336 x (AVE CCS/36))		
MPA2/MPA2B Z-ANA	ISLU2 ACTIVE		.75	39.0	
			0.12 + (0.336 x (AVE CCS/36))		
MPA3/MPA3B Z-AN SPA	ISLU2 ACTIVE		.75	39.0	
	IDLE		.10	5.2	
			0.12 + (0.376 + (AVE CCS/36))		
MPA4/MPA4B Z-AN P	SPISLU2 ACTIVE		1.00	52.0	
	IDLE		.10	5.2	
			0.19 + (0.450 x (AVE CCS/36))		
MPA5/MPA5B Z-AN TAI	ISLU2		0.12 + (0.336 x (AVE CCS/36))		
MPA6/MPA6B	ISLU2		0.19 + (0.400 x (AVE CCS/36))		
MPA7/MPA7B Z-AN IND	ISLU2		0.12 + (0.336 x (ave CCS/36))		
MPA8/MPA8B	ISLU2		0.19 + (0.400 x (ave CCS/36))		

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MPA9B	ISLU2		0.12 + (0.336 x (ave CCS/36))		
MPA10B	ISLU2		0.19 + (0.450 x (ave CCS/36))		
MPA11B	ISLU2		0.12 + (0.376 x (ave CCS/36))		
MPA12B	ISLU2		0.19 + (0.450 x (ave CCS/36))		
MPA14B	ISLU2		0.19 + (0.450 x (ave CCS/36))		
MPA16/MPA16 PPM	ISLU2		0.19 + (0.450 x (ave CCS/36))		
MPA17B	ISLU2		0.12 + (0.336 x (ave CCS/36))		
MPA18B	ISLU2		0.19 + (0.450 x (avg ccs/36))		
MPA21	ISLU2		0.09 + (0.715 x (avg CCS/36))		
MPA23	ISLU2		0.09 + (0.715 x (avg CCS/36))		
MPA24	ISLU2		0.09 + (0.715 x (avg CCS/36))		
MPA25	ISLU2		0.09 + (0.715 x (avg CCS/36))		
MPA27	ISLU2		0.09 + (0.715 x (avg CCS/36))		
MPA29	ISLU2		0.09 + (0.715 x (avg CCS/36))		
MPH1	RLG		0.07	3.5	
MPH2	RLG		0.07	3.5	
MPR1	RLG		0.35	17.5	
MPT1	ISLU2		0.05		

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MPU1 U-IN 2B1Q	ISLU2		.60	31.2	
MPU1B U			0.42A		
MPU2	ISLU2		.17	31.2	
*NETRA-T workstation	Administration Service Module(ASM)		4.1	213.0	m.t 05/99
ODL			.04	2.1	
*PM4-SMM	Remote Access conc	Multi Serv Module,RAC	1.5	80.6	m.t 06/99
*PM4-4T1-98M	RAC	RAC	1.5	80.6	m.t 06/99
*PM4-3E1-98M	RAC	RAC	1.5	80.6	m.t 06/99
*PM4-ST51	RAC	RAC	1.5	80.6	m.t 06/99
*PM4-T3-ATM	RAC	RAC	1.5	80.6	
*PM4-E3-ATM	RAC	RAC	1.5	80.6	
*PM4-PCTFI	RAC	RAC	1.5	80.0	
SN008	TULAB				P20
SN009	TULAB				P20
SN00LP	HTLU		.8	45.8	MES GEY 5E2
SN100 TA	TU		.09	4.2	P20
SN101 CDI	TU		.15	7.6	JJS GGS 5E2
SN101B	TU		0.14		osborne
SN102	TU		.11	5.5	
SN102B	TU		0.10		osborne
SN102C	TU		0.10		osborne
SN103 LSI	TU		.08	3.8	P20
SN103B LSI	TU		0.17		
SN104 4EM	TU		.08	3.8	P20
SN104B 4EM	TU		0.03		
SN105 2EM	TU		.07	3.3	P20
SN105B 2EM	TU		0.03		
SN106 2GS	TU		.16	7.9	P20
SN107	TU		.07	3.3	EST
SN110 RG	TU				P20
SN111 M2L	TU				P20
SN112	TU		.11	5.5	
SN112B	TU		0.03		
SN113 MLSI	TU		.08	3.8	5E2
SN113B MLSI	TU		0.17		
SN114 M4E	TU		.08	3.8	5E2
SN114B M4E	TU		0.03		
SN115 M4L	TU		.07	3.3	5E2
SN115B M4L	TU		0.03		
SN116 MTA	TU				P20
SN117 OGTCAMA TU					P20
SN118 CDT	TU		.16	7.8	P20
SN119 HG	TU		.09	4.5	P20
SN120 LSO	TU		.12	5.6	P20
SN121 OGTLTD	TU		.12	5.6	P20
SN122 OGTLTDHLTU			.14	6.7	P20
SN123 2W2WE&M TU			.19	9.0	P20
SN124 4L	TU		.17	8.0	P20
SN215	DLTU		.00		ERH AMW
SN215B	DLTU		.00		AMW 5E3

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SN216	DLTU		.00		ERH AMW
SN216B	DLTU		.00		AMW 5E3
SN217	DLTU		.00		ERH AMW
SN217B	DLTU		.00		AMW 5E3
SN218	DLTU		.00		ERH AMW
SN218B	DLTU		.00		AMW 5E3
SN346	TU		.04	2.08	ERH AMW
SN346B	DLTU2/DLTU3/ DLTU-R		.01		
SN219	DLTU		.00		ERH AMW
SN219B	DLTU		.00		AMW 5E3
SN372 2W SC I	ATU E		.20	10.5	JJS GGS 5E2
SN373 2W SC O	ATU E		.03	1.5	JJS GGS 5E2
SN374 2W ST I	ATU E		.20	10.5	JJS GGS 5E2
SN375 2W ST O	ATU E		.03	1.5	JJS GGS 5E2
SN376 3W ST I	ATU E		.38	19.9	JJS GGS 5E2
SN377 3W ST O	ATU E		.03	1.5	JJS GGS 5E2
SN378 4W E&M	ATU E		.03	1.5	JJS GGS 5E2
SN382 EMD I	ATU E		.1	1.8	JJS GGS 5E2
SN382 EMD O	ATU E		.08	4.0	JJS GGS 5E2
SN383	ATU E				
SN384					
SN384B					
SN412 C&D PH2			.14	6.8	
SN448	PPMU		.20		5E2
SN449	PPMU		.04		5E2
SN502	PPMU		.04		5E2
SN516	SMPU		.10		
SN516B	SMPU4		.12		
SN516C	SMPU4		.10		
SN530	ATU-E				
SN531	ATU-E				
SN532	ATU-E				
SN533	ATU-E				
SN534	ATU-E				
SN535	ATU-E				
SN536	ATU-E				
SN537	ATU-E				
SN538	ATU-E				
SN539	SMPU4		.40		
SN539B	SMPU4		.16		
SN549	ATU/DLTU-R		.00		
SN550	ATU/DLTU-R		.00		
SN551	ATU/DLTU-R		.00		
SN552	ATU/DLTU-R		.00		
SN553	ATU/DLTU-R		.00		
SN557	STIU,SFIU		.25		W L 5E3
SN560	ATU-E				
SN563	NETWORK TRC		.00	0.0	JHJ 5E3
SN600	ATU-E				
SN601	ATU-E				
SN602	ATU-E				
SN603	ATU-E				
SN605	ATU-E				
SN606	ATU-E				
SN607	ATU-E				
SN609	ATU-E				

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SN613	ATU-E				
SN615	ATU-E				
SN638	ATU-E				
SN639	ATU-E				
SN709	PPMU				
SN712	ATU-E				
SN714	ATU-E				
SN715	ATU-E				
SN716	ATU-E				
SN717	ATU-E				
SN720	ATU-E				
SN730	DLTU3/DLTU2/ DLTU-R		0.01		
SN732	PPMU		0.20		
TF4B	PORT SWITCH				
TF9	Digital Facility Access Unit		0.50		
TF10	Digital Facility Access Unit		0.50		
SN606	ATU-E				
SN607	ATU-E				
SN609	ATU-E				
SN613	ATU-E				
SN615	ATU-E				
SN616	SLIM/MMSU-E1		.15	7.8	PDB
SN616B	SLIM/MMSU-E1		.15	7.8	
SN617	MMSU-E1		.177	9.22	
SN617B	MMSU-E1		0.18		
SN619	SLIM/MMSU-E1		.04	2.08	PDB
SN631	SLIM/MMSU-E1		.115	5.99	PDB
TM390	DCLU				
TM430	DCLU				
TM691	CM2		25.6		LUKER LIST ?
TN003D	MIODFC				
TN005D	CCU				
TN006C	PROC CB				
TN011			.13	6.2	
TN014 MEMORY	MCU		.49	23.7	
TN016			.35	16.7	
TN028 STNBY	IMP		.21	11.0	DMT 5E2
TN028 ACTIVE	IMP		.32	16.7	DMT 5E2
TN056 STNBY	IMP2		.20	10.5	DMT 5E2
TN056 ACTIVE	IMP2		.35	18.1	DMT 5E2
TN060			.28	13.5	
TN061	MSCU		.41	19.7	
TN062	MSCU		.62	29.5	
TN063			.13	6.2	
TN064			.12	5.6	
TN065			.38	18.3	
TN068			.26	12.3	
TN069	MSCU		.51	24.6	
TN069B	5 Node IRN (Ring Node)		.48	22.0	PEM 5E3
TN070	MSCU		.29	14.2	
TN070B	MSCU2		.23	12.2	PEM 5E3

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TN071			.05	2.4	
TN073			.05	2.4	
TN074			.37	17.6	
TN074B	3B21D		0.15		
TN075			.33	15.7	
TN075C	3B21D		0.22		
TN082			.35	16.5	
TN082B	3B21D		0.33		
TN083			.39	18.6	
TN083B	3B21D		.24		
TN084			.26	12.3	
TN109 CONT IO	TSIU		.25, .27	12.8, 14.2	5E2
TN116 DATINTA	TSIU		.36	18.8	5E2
TN117 CTINTA	MC2		.32	16.5	5E2
TN118 DATINTB	TSIU		.27, .33	14.3, 17.3	5E2
TN119 CTINTB	MCU		.11	5.4	
TN124			.14	7.3	RLI
TN127 ALT DLO	TSIU		.16, .16	7.6, 8.5	
TN127B	TSIU				CA 5e2
TN128 DSCCOM	DSU		.18	9.5	5E2
TN130 UTD	DSU		.26	13.3	5E2
TN132 UTG	DSU		.16	8.6	5E2
TN133			.23	12.0	5E2
TN134 UN CONF	DSU		.33	15.8	
TN136 COMMON	MSU		.14	6.7	
TN137 OFF ALM OFF	ALM		.12	6.3	WKV WFB 5E2
TN138 MMSU/MMSU- E1			.19	9.8	5E2
TN139			.15	7.4	
TN140			.09	4.3	
TN141 LINK IN	TMS		.24	11.7	
TN142 DU 64*4	TMS		.33	15.9	
TN144 FOUNDPC	IOP		.31	14.8	
TN147 ALT-DH1	TSIU		.17	8.1	
TN148 MICPROS	MCU		.18	9.2	5E2
TN149 MICRPCO MCU			.21	10.7	5E2
TN150	MCTU		.21	10.3	5E2
TN151	MCTU		.21	10.7	5E2
TN152 DYMCO 1	MCU		.36	17.1	
TN212		MCU	.23, .22	9.2, 11.2	5E2
TN213		MCU	.14, .17	7.2, 8.7	5E2
TN214		MCU	.19, .22	9.0, 11.7	5E2
TN217	HLSCA1	MSU	.16	8.5	
TN220			.22	11.7	5E2
TN220B	MMSU/MMSU-E1		.90		J.Laslow
TN221	MMSU		.13	6.1	
TN224	4 CONF		.32	15.3	
TN233			.25	12.2	
TN234			.29	15.	MER RJC 5E2
TN242	TMSU		.25, .40	12.2, 20.6	JPL PEM 5E2
TN243	TMSU		.34, .38	16.5, 19.9	JPL PEM 5E2
TN244	TMSU		.10	4.9	
TN245	MICU		.24	12.6	
TN246	MICU		.28	14.8	

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TN248	MICU		.24	12.6	
TN249	MICU		.12	6.1	GCK RLI 5E2
TN251 FANOUT	TMS		.17	9.2	
TN252	TMCU		.31	14.6	
TN253 SHELFIN	TMS		.09	4.9	
TN254			.16	7.6	
TN255 TEST BD	TMS		.15	7.3	
TN256			.29	13.7	
TN257			.17	7.9	
TN258 CLK INT	TMS		.22	10.7	
TN259 MESINT1 MICU			.24	11.7	
TN260 MESINT2 MICU			.15	7.3	
TN261 MESINT3 MICU			.18	8.8	
TN262 MESINT4 MICU			.12	5.8	
TN263 MMP1	MPU		.22	10.7	
TN264 MMP2	MPU		.17	8.1	
TN265	TMCU		.20, .14	9.8, 7.4	JPL PEM 5E2
TN266 MESINT0 MICU			.05	2.5	
TN267	TMCU		.23	11.0	
TN268	TMCU		.28	13.4	
TN269	TMCU		.28	13.4	
TN270	TMCU		.19	9.2	
TN271	MCU		.34	16.2	LWF
TN272	MCU		.23	11.0	
TN273	MCU		.17	8.2	LWF
TN274	MCU		.23	11.0	
TN275	MCU		.37	17.7	JAN LWF
TN302	DSU		.18	8.4	K H
TN303	DSU		.24	11.3	K H
TN304	DSU		.24	11.4	K H
TN304B	DSU		.24		
TN305	DSU		.18	8.5	K H
TN315 DATASEL	TSIU		.25, .32	13.1, 16.7	
TN315B	TSIU				CA 5E2
TN316 TSI&TIM	TSIU		.21, .28	11.0, 14.6	5E2
TN324 LI 1	TSIU		.28	13.3	
TN325 LI 2DLI	TSIU		.20	9.5	
TN327	LU		.25	12.2	
TN328	MMSU		.36, .21	17.4, 10.7	5E2
TN328B	MMSU		0.34		
TN329	MMSU		.36, .21	17.4, 10.7	5E2
TN329B	MMSU		0.17		(meadors)
TN330	MMSU		.36, .21	17.4, 10.7	5E2
TN330B	MMSU		0.34		
TN331	LU		.24	4.9	
TN331B	LU		.24	4.9	MJK JJB 5E2
TN335E	LU3		.39	20.2	D G 7
TN332	LU		.15	7.3	
TN332B	LU		.15	7.3	JPJ JJB 5E2
TN333	LU		.22	10.5	
TN334	LU		.01	.4	EAM
TN335	LU		.19	9.2	

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TN335B	LU2		.19	9.2	JRL TMM 5E3
TN335C	LU2		.39	20.2	D A SMW 5E3
TN336	LU		.06	3.1	
TN337	LU		.14	7.3	
TN338	LU		.10	4.9	
TN338B	LU		.10	4.9	JPJ JJB 5E2
TN340	LU		.15	7.3	
TN340B	LU		.15	7.3	JPJ JJB 5E2
TN341	LU		.14	7.3	
TN342	LU		.09	4.4	
TN343	LU		.13	6.3	
TN618B	FIU3		.18	9.2	FJW CEA
*TN618D	FIU3		.18	9.2	09/99 cpsm
TN619	FIU3		.25, .23	12.2, 10.0	WFG G R
TN831	LU2		.11, .09	6.0, 4.8	MJK KFH 5E4
TN831B	LU3		.75		
TN831C	LU3		0.09		cpsm 022597
TN832	LU2		.11, .24	6.0, 12.7	DPD KFH 5E4
TN832B	LU3		.25		
TN832C	LU3		0.09	cpsm 022597	
TN833	DSU2		.47	24.4	GPB JCH 5E3
TN833C	DSC3/MCTU3		.61	31.3	SLATER
TN834	TSIU		.23	11.9	MJK 5E2
TN835	TSIU		.22	11.6	MJK 5E2
TN836	DI		.35	18.3	MJK 5E2
TN837	DI		.33	17.1	MJK 5E2
TN838	LU2		.11	6.0	ASS KFH 5E3
TN838-85	LU		.09	4.9	SVC 5E2
TN840	LU2		.11	6.0	SVC 5E3
TN841	GDSU E		.26	13.4	NDN MJK 5E2
TN842	LU2		.19	10.1	CRD DB 5E3
TN842-85	LU		.19	10.1	SVC 5E2
TN842B	LU2		.11	5.6	SMW 5E3
TN843	LU2		.12	6.5	SMW 5E3
TN844	LU2		.26	12.4	DD DB 5E3
TN844B	ISLU HLSC		.82		RGS 5E3
TN844C	LU3		.17		
TN844D	LU3				07/99
TN844E	ISLU2		0.22		
TN845	LU-83		.17	8.8	GPP DB 5E2
TN848	DSU		.20	10.4	PEF MJK 5E2
TN850	DSU UTD		.22	11.4	WWE MJK 5E2
TN851	DSU UNIV		.26	13.4	NDN MJK 5E2
TN852	DSU UTG		.18	9.2	DSM MJK 5E2
TN853	DSU		.27	14.3	CA 5E3
TN856	MSPU		.42	22.0	MRS RLI 5E2
TN856B	MSCU2		.58	29.3	REO 5E3
TN856C	MSCU3, MSPU3		.58		
TN857	MMP				
TN858	MMP		.26	13.4	MRS RLI 5E2
TN859	MSCU MI		.26	13.5	JME RLI 5E2
TN860	HMICU		.16	8.5	JME RLI 5E2
TN861	HMICU		.20	10.2	JME RLI 5E2
TN862	HMICU		.13	6.7	JME RLI 5E2
TN865	TSIU		.26	13.3	EST
TN866	TSIU		.26	13.3	MJK 5E2
TN867	OAU		.24	12.6	RRM WFB 5E2

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TN869	BDOC		.40	20.7	SKK EWW 5E2
TN870	HCMS		.49	25.4	CJS RLI 5E3
*TN871	MCU IMCU		.46	23	10/99,Ed. Skalka,was .33 16.9
*TN871B	SMP12		.39	20.1	10/99 was .44 18.8 Ed Skalka
TN872	SMPU		.25	13.1	JAN JCH 5E3
TN873	SMPU		.22	11.7	JAN JCH 5E3
TN874	SMPU		.25	12.9	JAN JCH 5E3
TN874B	SMPU		.21	11.1	JAN JCH 5EE1
TN875	SMPU		.40	20.9	GM JCH 5E3
TN875B	SMPU	IDLE	.39	20.3	GM JCH 5E3
TN875B	SMPU	ACTIVE	.47	24.5	GM JCH 5E3
TN875C	SMPU		.46	23.9	GM JCH 5
TN876	SMPU		.21	11.0	JBC 5E2
TN876B	SMPU		.21	11.0	CA 5E3
TN877	TSIU		.41	21.4	JBC 5E2
TN878	SMPU		.28	13.8	GM 5E2
TN879	MMSU/MMSU-E1		0.13		
TN879B	MMSU/MMSU-E1		.37	6.7	JBC 5E2
TN880	MMSU/MMSU-E1		.10	5.4	JBC 5E2
TN881	CMCU2		.38	20.0	PEM 5E2
TN882	CMCU		.30	15.7	PEM 5E3
TN883	TMS		.47	24.4	PEM 5E2
TN884	TMS		.47	24.4	PEM 5E2
TN884B	CMCU		1.01		
TN884C	TMS2CB		1.01	52.10	afk
TN885	TMS		.47	24.4	PEM 5E2
TN886	MSCU2		.45	23.2 MRS REO 5E3	
TN887			.25	13.2	MJK 5E2
TN888	TMSU2		.69	36.0	ALK PEM 6
TN892			.15	7.6	JBC 5E2
TN896	GDSU E		.18	8.4	GJB HJH 5E2
TN897			.24	11.3	GBJ HJH 5E2
TN898			.24	11.4	GJB HJH 5E2
TN898B			0.42		
TN898C			0.22		
TN899			.18	12.3	IHC DOR 5E2
TN899B			0.17		012997
TN914	5 Node IRN (Ring Node)		0.31		10/9/95 olson
TN916	5/8 Node IRN (Ring Node)		0.36		10/9/95 olson
TN917B	5/8 Node IRN (Ring Node)		0.40		10/9/95 olson
TN934	OFFICE ALM UNIT		1.30	67.6	PHELPS
TN983		3B21D	0.24		
TN996	PPMU		.24	12.3	IHC DOR 5E2
TN996B	PPMU				
TN1032	GDSU/DSU		0.31		
TN1034	CMCU		.33	17.2	REO 5E3
TN1039	FIU3		0.15	7.8	w.gliwa 9/99
TN1040	MMSU		.04		

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TN1042	PSU/SMPU4		.56	29.0	DAS PRS 5E3
TN1042B	MCTU3/SMPU4		0.69		DAS PRS 5E3
TN1043	DSU2		.29	15.0	CA not pro
TN1048	LU		.11	6.0	SVC 5E3
TN1053	DSU2		.15	7.5	KTK JCH
TN1054	DSU2		.11	5.5	WAW
TN1058	LU		.11	6.0	SVC 5E3
TN1058B	LU		.13		
TN1058C	LU		.12		
TN1077	MCTU		.48	25.0	KTK CAL 5E2
TN1077B	MCTU		.20	10.4	K S
TN1077C	MCTU		.34		T.Ross 10/99
TN1077D	MCTU		.34		T.Ross 10/99
TN1077E	MCTU		.275	10.4	
TN1077F	MCTU		.34		
TN1081	PSU		.70	36.6	AWK FJL 5E4
TN1081B	PSU		0.64		
TN1082	PSU		.33	17.1	DAK FJL 5E3
TN1082B	PSU		0.47		
TN1083	PSU		.19	10.0	
TN1083B	PSU		.19	10.0	
TN1083C	PSU		0.18		
TN1086	MCTU		.23	12.2	JCH 5E3
TN1086B	MCTU3		0.38	12.2	JCH 5E3
TN1087	LAU		.30	15.6	EST
TN1089B					
TN1089	LAU		.30	15.6	EST
TN1129	MCTU		.21	11.0	CA 5EE1
TN1129B	MCTU				
TN1130	CMCU2		.16	8.5	GCK AMW 5E3
TN1131	MICU2		.21	11.0	SWM AMW 5E2
TN1274	CMCU2		.19	9.8	REO 5E2
TN1274B	CMCU		.22		
TN1275	CMCU2		.26	13.4	REO 5E2
TN1275B	CMCU		.27		
*TN1276	CMCU2		.18	9.2	REO 5E2 <- change, was .35amp 09/99
TN1283	CMCU2		.26	13.4	REO 5E2
TN1283B	CMCU		.092	4.8	
TN1284	CMCU2		.26	13.4	REO 5E2
TN1284B	CMCU		.11		
TN1285	CMCU2		.23	12.2	REO 5E2
TN1285B	CMCU				--
TN1286	CMCU2		.07	3.6	CWR
TN1286B	CMCU		.11		
TN1304	DLTU-R		.29	14.8	AMW 5E3
TN1304B	DLTU-R		0.29		(swedberg)
TN1304C	DLTU-R		0.22		(swedberg)
TN1305	DLTU-R		.30	16.0	AMW 5E3
TN1305B	DLTU-R		0.43		(nijholt)
TN1306	DLTU-R		.30	16.0	AMW 5E3
TN1306B	DLTU-R		.25	16.0	AMW 5E3
TN1307	DLTU-R		.30	16.0	AMW 5E3
TN1307B	DLTU-R		0.44		(nijholt)
TN1309	DLTU-R		.30	16.0	AMW 5E3

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TN1309B	DLTU-R		0.30		(swedberg)
TN1310	DLTU-R		.30	16.0	AMW 5E3
TN1310B	DLTU-R		0.32		(nijholt)
TN1310C	DLTU-R		0.32		(nijholt)
TN1311	DLTU-R		.29	14.8	AMW 5E3
TN1311B	DLTU-R		0.29		(swedberg)
TN1312	DLTU-R		.30	16.0	AMW 5E3
TN1312B	DLTU-R		0.34		(nijholt)
TN1312C	DLTU-R		0.34		(nijholt)
TN1318	DLTU-R		.29	14.8	AMW 5E3
TN1319	DLTU-R		.29	14.8	AMW 5E3
TN1319B	DLTU-R		.29		
TN1329	DLTU-R				
TN1343	TRC				JHJ
TN1344	TRCU		.37	16.0	JHJ 5E4
TN1345	TRCU2		0.54		
TN1345B	TRCU2		0.54		
TN1346	ISLU CCP		.68	35.4	DCB 5E3
TN1347	ISLU RING GEN		4.43(CCS/36)		RGS 5E3
TN1347B	ISLU RING GEN		4.43(CCS/36)		RGS 5E3
TN1348	ISLU MAN		.94(CCS/36)		RGS 5E3
TN1366	PSU PH		.63	31.7	ESB FJL
TN1366B	PSU PH		0.76		
TN1367	PSU PH3		.73	38.0	
TN1367B	PSU PH3		0.80		
TN1367C	PSU PH3		0.60		
TN1368	PIP (CMP)		.80	41.9	G K
TN1369	PIP (ACTIVE) (CMP)		.73	38.1	G K
TN1369	PIP (INACTIVE) (CMP)		.64	33.6	G J
TN1370	MEU		.40 (est)		
TN1371	PSU		.68	35.5	7
TN1371B	PSU		0.80		
TN1371C	PSU		0.50		
TN1372	MCTU2				
TN1374	MCTU2		.56	29.3	JCH 5E4
TN1376	MCTU2 IDLE		.43	22.3	CAB
TN1376	MCTU2 ACTIVE		.48	25.2	
CAB					
TN1377	MCTU3		.21		
TN117	SMPU		.21	11.0	
TN1384	ISLU RG 25HZ		.91(ccs/36)		RGS 5E3
TN1384B	ISLU RG 25HZ		.91(ccs/36)		RGS 5E3
TN1397	SMP12		.44	22.9	G M
TN1400	SLIM/MMSU-E1		.142	7.40	PDB
TN1401B	ISLU HLSC EARTH BACK		.91(CCS/36)		
TN1402	LU3 AUX EXPORT		1.04	54.0	JRL
TN1406	CMCU				
*TN1407	SMP23 PROCESSOR	ED5D715-30 -31	0.577	30.06	n.soni

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	CORE				
TN1408	SMP 23 DYNAMIC MEMORY CONTROLLER				n.soni
TN1408B	SMP23/CDM(re trofit)		0.42		n.soni
TN1410	DLTU-R		0.22		
TN1410B	DLTU-R		0.22		
TN1411	DLTU-R		1.60		
TN1412	ISLU2 (need duty cyc)		1.50	78.3	
TN1414	DLTU2/DLTU3		0.12	6.0	
TN1415	DLTU2/DLTU3		0.13	6.5	
TN1418	SMP23/CDM(re trofit)	ED5D715-31	0.203	10.5	
	(ED5D715-31 grp 4,5)				
TN1420		3B21D	0.10		
TN1421	DLTU2/DLTU3		0.4	20.0	
TN1422	MMSU/MMSU-E1		0.31		
TN1423	SMP23/CDM(re trofit)		0.36		
	(ED5D715-31 grp 1C)				
TN1427	DLTU-R		0.22		
TN1424	MCTU3		3.90		
TN1505	DATA PORT				
TN1510	FIU3		.19	10.0	BWG, cpsm
TN1511	ECSU		.52	26.6	GJPRS 5E3
TN1512	ECSU		.26	13.3	
TN1524	MCTU2/MCTU3		.21	11.0	P R
TN1527	SMP12		.46	23.9	G M
TN1533	SMP12				
TN1535	LU3		.11	6.0	
TN1538	MMSU/MMSU-E1		0.34		
TN1539	MMSU/MMSU-E1		0.34		
TN1540		MMSU/MMSU- E1		0.19	
TN1561	LU3		.11	5.7	
TN1611	DLTU2/DLTU3		.12	6.2	
TN1611B	DLTU2/DLTU3		.10	5.2	
*TN1611C	DLTU2/DLTU3		0.092	4.8	08/99 r.h, cpsm
TN1612	DLTU2		.20	10.2	
TN1612B	DLTU2/DLTU3		.15	10.2	
TN1613	MMSU/MMSU-E1		0.34		
TN1614	MMSU/MMSU-E1		0.19		
TN1615	MMSU/MMSU-E1		0.19		
TN1617	MCTSI (REPLACES TN 872)				
TN1630B	5 Node IRN				10/9/95

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	(Ring Node)0.36				olson
TN1634	DSU2		1.00		
TN1635	DSU2		0.48		
TN1636	MMSU/MMSU-E1		0.19		
TN1661	MCTU3 16 MBYTE ACTIVE		.52	27.0	
	STANDBY		.46	24.0	
TN1670	IDCU		.16	8.3	
TN1676	ISLU		.23	12.2	
TN1681	TMSU2,3 QUAD LINK INTE		.89	42.75	afk
TN1682	TMSU2,3 QUAD LINK PACK		.95	45.5	afk
TN1683	CMPU	GATEWAY CORE	.68	32.88	afk
TN1684	CMPU	GATEWAY LINK	.50	23.75	afk
TN1685	MEM	SM2000	.72	34.38	afk
TN1800			.14	7.3	
TN1802	FIU3		.24	12.5	09/99 cpsm
TN1803	5/8 Node IRN (Ring Node)		0.36		10/9/95 olson
TN1812	CMU		.08	4.3	
TN1806	SMPU4		.66		
TN1813	CMU		.32	16.5	
TN1820		3B21D	1.77		10/9/95 sue
TN1820B		3B21D	0.65		
TN1820C		3B21D	1.77		
TN1820D		3B21D	1.77		
TN1821		3B21D	0.17		10/9/95 sue
TN1821C		3B21D	0.17		
TN1821B		3B21D	0.70		
TN1825	ECSU		0.40		
TN1830	CMU		.36	18.9	
TN1838	MCTU2		.125		
TN1839		3B21D	0.22		
TN1841	DSU2		0.57	29.7	
TN1842	DSU2		0.063	3.3	
TN1843	PSU2		0.625	32.55	
TN1844	PSU2/PH voice		0.53		
TN1845	PSU2/PH /ATM		0.96		
TN1846	PSU/PH4		0.74		
TN1848	PSU/PH6		0.74		
TN1850			0.211		
TN1851			0.295		
TN1856	PSU2		0.54		
*TN1863	PSU2/PH4		0.56	29.12	g.m
*TN1873	PSU2/PH22	J5D003BY-1	1.06	55.12	g.m
TN1881	17A Rec Ann				
TN1882	17A Rec Ann				
*TN1875+	17A Rec Ann				
TN1881+ TN1882+ TN1875+ 506A alarm			0.92	47.9	8/99 annsys.web.l ucent.com

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module					
TN1996	XCDU		0.48		
TN2012	4 MBYTE IW ACTIVE		.26	13.4	CAB
	STANDBY		.21	11.2	CAB
TN2116		3B21D	0.42		
TN4011	DLTU2/DLTU3		0.10		
TN DRCV	HCMMSG		.19	9.8	MRS RLI 5E2
TN00AA	HTLU		.06	2.9	MES GEY 5E2
TN00CC	HTLU		.23	12.2	JPJ GEY 5E2
TN00CD	HTLU		.23	12.2	JPJ GEY 5E2
TN00RG	HTLU		1.09	56.8	GEY 5E2
TNCI83			.19	9.8	
TNDI83DATA INT			.14	7.3	
TNDL83DLI83			.20	10.7	
TNDRCV			.19	9.8	MRS RLI 5E2
TNH1A	DLTU		.30	16.0	AMW 5E3
TNH1A-E	DLTU		.30	16.0	AMW 5E3
TNH1B	DLTU		.30	16.0	AMW 5E3
TNH1B-E	DLTU-E		.30	16.0	AMW 5E3
TNLDSU	TSIU85		.38	18.3	
TNMP1	MPU-85		.25	12.	P205
TNMP2	MPU-85		.25	12.	P205
TNRCLK_D	DLTU		.29	14.8	SMR AMW 5E3
TNRCLK-E	DLTU		.29	14.8	SMR AMW 5E3
TNR1	DLTU		.29	14.8	SMR AMW 5E3
TNR1E	DLTU-E		.30	16.0	AMW 5E3
TNR2	DLTU		.29	14.8	SMR AMW 5E3
TNR2E	DLTU-E		.30	16.0	AMW 5E3
TNTS51TSI85-1			.19	9.8	
TNTS52TSI85-2			.19	9.8	
TNUCC4	DSU 35		.32	15.3	
TNUTD4	DSU 83		.28	13.4	
TNZZZ	LU2		.11	6.0	SVC 5E3
UD7			.09	4.7	
UM73	DX	SM2000	1.08		
*UM74	COMM/TSIU4	J5D003NB	.60	31.25	L.m
UM74B	COMM/TSIU4	J5D003NB	.15		
*UM74C	TSIU4	J5D003NB	.204	10.62	l.m
*UM74D	TSIU4.V2	J5D003NB	.213	11.09	CPSM 8/99
UN001			.77	37.1	
UN002			.21	10.1	
UN003			.45	21.7	
UN004			.65	31.3	
UN005			.59	28.4	
UN006			.79	37.6	
UN009			.81	38.9	
UN010			.47	22.3	
UN011			.72	34.6	
UN016			.18	8.7	
UN018			.71	34.0	
UN021			.81	38.9	
UN022			.59	28.4	
UN023			.89	42.7	
UN024			.15	7.3	
UN025			.15	8.0	5E2

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UN025B			.14	7.3	REO 5E3
UN026			.28	13.7	
UN028			.98	47.0	KK
UN033B		3B21D	0.24		10/9/95 ratz
UN033D		3B21D	0.17		10/9/95 sue
UN030			.98	47.0	
UN032			.32	15.5	
UN033			.38	18.3	
UN034			.36	17.3	
UN035			.62	29.6	
UN036			.32	15.3	
UN037			.68	32.8	
UN039			.32	15.4	
UN040			.62	29.6	
UN043			.62	29.6	
UN044			.62	29.6	
UN045			.76	36.3	
UN048			.35	16.7	
UN052					
UN059B					
UN060			.51	24.4	
UN070			.22	11.6	KK
UN071			.31	16.2	MJK 5E2
UN071B	MCTU3/SMPU4		.31	16.2	CA 5E2
UN071C	SMPU5		.36		
UN072			.15	7.3	
UN073			.52	25.0	
UN073B			.19	9.8	RLI 5E2
UN074	TMS FAN		.20	10.5	JPD PEM 5E2
UN075	FTS				
UN076	FTS				
UN133					
UN077	FTS				
UN078	FTS				
UN079	FTS				
UN092					
UN120	DCLU		.46	24.4	ERH GGS 5E2
UN121	DCLU		.46	24.4	ERH GGS 5E2
UN132	FST				
UN133C					
UN147	AXPU		.23	12.2	DSY 5E2
UN148	AXPU		.28	14.6	DSY 5E2
UN170	MSPU		.23	12.2	MES RLI 5E2
UN173	MSCU2		.30	15.9	MES REO 5E3
UN174	AXMP		.35	18.3	JEY RLI 5E2
UN176	HCMSCU		.15	8.0	MES RLI 5E2
UN178	MSCU2		.68	35.4	MES REO 5E3
UN179	HCMSCU		.70	36.6	KTK RLI 5E2
UN182	ISLU		.76	39.5	ALK PEM
UN183	CMCU2	.37	19.3		
UN184			.59	30.5	PEM 5E2
UN186	CMCU2		.40	20.7	REO 5E3
UN187	CMCU2		.34	17.9	REO 5E3
UN189	PSU		.76	39.7	FJL 5E5
UN192	PSU		.70	36.6	JMG FJL 5E3

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UN192B	PSU		0.72		
UN192D	PSU		0.72		
UN195	EBUS		.12	6.2	PEM 5E2
UN196	EBUS		.04	2.0	PEM 5E2
UN197	EBUS		.05	2.4	PEM 5E2
UN198	EBUS		.00	0.0	PEM 5E2
UN199	EBUS		.76	39.8	PEM 6
UN304	5/8 Node IRN (Ring Node)0.62		1		0/9/95 olson
UN306	ISLU		.44	22.9	DCB 5E3
UN307	ISLU		.42	21.9	DCB 5E3
UN308	ISLU				DCB 5E3
UN310	LTP/EBUS		.19	9.8	GPO 5E3
UN311	EBUS		.12	6.3	GPO 5E3
UN312	EBUS		.06	3.1	GPO 5E3
UN313	EBUS		.04	2.0	GPO 5E3
UN321	EBUS		.37	5E3	
UN322	LU3		.07	3.8	JRL
UN322B	LU3		0.52		
UN348	PSU		.80	41.6	
UN348B	PSU		0.80	41.6	
UN359	ISLU2		1.16	60.4	
UN360	ISLU2		.29	15.3	
UN361	ISLU2		.27	14.0	
UN362	MCTU2		.5		
UN363	DSC3		.52	27.0	
UN373		3B21D	0.84		10/9/95 sue
UN373B		3B21D	0.29		11/10/95 ratz
UN375		3B21D	1.00		10/9/95 sue
UN375B		3B21D	0.50		CPSM
UN375C		3B21D	0.50		CPSM
UN375D		3B21D	0.50		CPSM
*UN375E		3B21D	0.46		Was 1.15A, revised 8/99
*UN375F		3B21D	0.46		07/99 h.sue
UN376		3B21D	1.00		10/9/95 sue
UN376B		3B21D	0.50		10/9/95 sue
UN376C		3B21D	0.50		CPSM
UN376D		3B21D	0.92		
UN376E		3B21D	0.92		
UN377		3B21D	0.17		10/9/95 sue
UN379		3B21D	1.20		10/9/95 sue
UN392	RLG		0.44	21.87	
UN395	SMPU4/MCTU3		0.703	36.60	
UN395B	SMPU4,SMPU5		0.76		
UN396	PSU2		0.530	27.60	
UN399	PSU2		0.80	41.6	
UN400	LU3 APT ONLY COMDAC		.11	9.2	VIM
UN402	LU3 APT ONLY COMDAC		.11	9.2	VIM
UN500	EBUS		.14	7.4	GPO 5E3

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UN501	EBUS		.29	14.9	GPO 5E3
UN503	EBUS		.29	14.9	GPO 5E3
UN504	EBUS		.14	7.4	GPO 5E3
UN514	MCTU2				
UN515	MCTU2		.47	24.4	JCH 5E4
UN516	MCTU2		.28	14.6	JCH 5E4
UN516B	MCTU2		.25	13.0	
UN517	MCTU2		.47	24.4	JCH 5E4
UN518	MCTU2		.49	25.6	JCH 5E4
UN520	SMP20 Speedup		.91		PRS
UN538	MH	SM2000	.52	25.00	afk
UN539	SMPU5	J5D003NG	.40	20.08	j.a
UN539B	SMPU5	J5D003NG	.156	8.12	j.a
UN540	CORE	SM2000	.81	39.06	afk
UN540B	CORE	SM2000	0.75		
UN553	XCDU		0.52		(same as UN73)
UN555	SMPU5		0.24		
UN560	SMPU4		0.75		
UN580		3B21D	0.42		
UN580B		3B21D	0.50		
UN582		3B21D	0.30		
UN582B		3B21D	0.78		8/99
UN583		3B21D	0.30		
UN584	CORE	SM2000	.54	28.123	afk
UN586	IDCU		0.56		
UN588	SMPU5		0.54		
UN589	SMPU5 (power supply + SN516)		0.12		
UN590			0.06		
*UN592	PSU2		0.28		11/99 revised
*UN592B	PSU2	J5d003BY-1	0.28		11/99
UN593	SMPU5		0.75		
UN594	SMPU4		0.75		
UN597	SMPU4		0.78		07/99
UN611					
UN612					
UN616					
UN617					
UN618					
UN838-86			.14	7.3	SVC 5E2
UN933		3B21D	0.12		
UN2012					
343A 3MB SRAM		SM2000	.16	7.50	
*982AAB	TSIU4	J5D003NB	0.003		L/m
*982AAE	TSIU4	J5D003NB	~0.001		l.m
982TN	DNU-S		0.270	13.5	
982TRC	MCTU3		0.03		
982TSC	MCTU3		0.03		
982AEE PIB		SM2000	.001	.05	
982YK COT2		SM2000	.06	2.68	
.sp					

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WP92824L1	DSU2		0.01		
WP92824L2	DSU2		0.01		
WP93074L1	DSU2		0.01		

| THE FOLLOWING ARE IDLE HOUR CURRENT DRAINS FOR NO.5 ESS CIRCUIT PACKS. WHERE NO IDLE HOUR DRAIN IS GIVEN, ASSUME THAT THE IDLE AND BUSY HOUR DRAINS ARE THE SAME AND ARE AS PROVIDED IN THE P201 PRT POWER LDI.

THE DRAINS ARE FIGURED AT 52V AND ARE MULTIPLIED BY 1.22 TO INCLUDE POWER UNIT LOSSES

CODE	NAME	UNIT	CURRENT	POWER	COMMENT
SN102 LSO	TU		0.0	0.0	P203
SN103 LSI	TU		0.0	0.0	P203
TN331 GDXAXSP	LU		.05	2.4	P203
TN332 GDXAXSC	LU		.08	3.7	P203
TN333 HLSC	LU		.18	8.5	P203
TN334 LINKBIAS	LU		.01	0.4	P203
TN335 CHAN	LU		.12	5.9	P203
TN336 GDXCONTR	LU	.06	3.1	P203	
TN338 LNSW	LU		.03	1.2	P203
TN339 A- LKBIAS	LU		.00	0.1	P203
TN340 COMN	LU		.08	3.7	P203
TN342 COMDAT	LU		.09	4.4	P203
TN343 COMCTRL	LU		.13	6.3	P203
UN077	FTS				
	12.2	DSY	5E2		
UN148	AXPU		.28		

INFORMATION NOTE 301

The basic power input to 5ESS is from the nominal -48 Volt direct current power plant; all voltages required within 5ESS are derived from this -48 volt plant via FASTTECH or board mounted power supplies. Therefore it is convenient to specify the current drains in amperes of -48V. Note that all the drains are measured at the actual float voltage of -52.08 volts in stead of the nominal -48 volts. Note also that the drains given are the List 1 drains required from the power plant rectifiers during the "busy hour" of the day. Also required when calculating the battery reserve is the additional drain for the "protected AC inverter" which has a List 1 drain of ab.dc amperes. Note that these battery reserve figures do not include the usual 20 percent additional capacity for office reserve battery recharge.

INFORMATION NOTE 302

Analysis should be made using the Digital Ordering and Planning System (5EDOPS) or equivalent to obtain estimated drain information.

INFORMATION NOTE 303

For digital system, the heat released b the system is basically the idle-hour power; as the system enters the busy hour most of the additional power is dissipated in the loop plant, either as subscriber or trunk. Power plant losses must be added to the 5ESS heat release if the power plant is located in the switch room.

INFORMATION NOTE 304

The energy consumption of the 5ESS is a function of both busy hour and idle hour power. Each office will have its own characteristics of busy hour and idle hour and the data should be used where available. If no other information is available. One formula in common use is to split a 24 hour day into 11 hours of busy hour power and 13 hours of idle hour power and average the two figures. For the 5ESS, this would result in an average energy consumption of about 90% of the busy hour energy consumption. When computing the energy needs, the inefficiencies in the power plant must be added to the calculation. Typical power plant efficiencies are in the range of 85%, so the 5ESS energy must be divided by 0.85 to get the total energy output. Figure 4 gives a plot of this energy per year versus line size. A characteristic of digital switching systems is that the busy hour power is not significantly higher than the idle hour power, as contrasted with electromechanical system whose drains are extremely traffic sensitive. Since the public utility electric bill is composed of both and energy charge (kilowatt hours) and a maximum demand charge (kilowatts), digital switching systems can have a lower electric bill than the electromechanical systems they replace.

INFORMATION NOTE 305

Current drains for Remote Switching Modules (RSMs) may be estimated from Figure 6, for the 5A RSM (a single switching module), the 5B RSM (a cluster of 5A RSMs associated together), or the Optical Remote Module (ORM). The basic current drain for each of these RSMs is $I = 27.0A + 0.1A/L$ for each of the switching modules in the complex. This applies regardless of the type of RSM. When a cluster of RSMs is made up of individual 5A RSMs or ORMs combined together, the 27 Ampere figure in the equation must be included for each RSM or ORM, and not used just once per installation.

INFORMATION NOTE 306

When RSMs are used in the 5ESS, the office they home in on becomes a *host* office, as contrasted with the *stand alone* type offices covered in Figures 1 through 5. Since a host office requires a small amount of additional equipment not required in stand alone office, host office, drains will be higher. 5EDOPS is recommended to obtain these host office drains. For estimating purposes, the host drains will probably be 4% to 10% higher than stand alone drains, depending on line size and the number of RSMs.

INFORMATION NOTE 307

The 5ESS may be used as a toll only office employing only Digital Line Trunk Units (DLTUs) in single bay Switching Modules. For planning purposes, use Figure 7 to obtain a preliminary estimate of current drains. The 5EDOPS program should be run to obtain more precise values of drains. Also if there are both analog and digital trunks, the current drains will be different from predicted in the Figure 7 curve. The 5EDOPS program must be used in this case.

INFORMATION NOTE 308

Protected ac current drains (117 volt 60 Hz, 1 Phase) are given in FS6 for the ac operated equipment items that must be functional during a commercial power failure (when the system is running on the office reserve battery). Note that the total ac current available is limited to 8.33 amperes, the rated current of the protected AC inverter. This must not be exceeded. Typically key data sets in this category are located in the protected AC data set cabinet, with the entire cabinet being powered from protected ac. Note also that this inverter is very sensitive to the load current crest factor which is the ratio of the peak current to the rms current. The crest factor is 2.8, meaning that the peak current drawn must not exceed 2.8 x the 8.33 amperes of full load rms current or 23.3 amperes. The peak current drawn by power supply type loads such as video displays and printers are very large and must be considered when placing loads on the inverter. Do not place any other loads upon this inverter without making this determination, the present video display, printer, AMA data sets and SCC data sets combine to load the inverter to its maximum capability, even though the inverter ammeter may indicate only 5 amperes. This is because the inverter ammeter reads only the average current and not the peak current. Addition of further loads may cause loads on the inverter to operate in a continuous brownout, low voltage condition leading to intermittent operation or premature equipment failures.

INFORMATION NOTE 309

Essential AC current drains (117 volt, 60 Hz, 1 phase) are given in FS7, for the items of ac operated equipment that are not required during a commercial power failure (these items will not be powered until the standby engine starts). There is no limit to the ac current available, other than that of the standby engine alternator. Typically the data sets in this category are located in the "essential, AC data set cabinet, with the entire cabinet being powered from essential ac.

INFORMATION NOTE 310

5ESS is basically a constant power system meaning that as the dc input voltage decreases, the input current increases proportionately maintaining the same power. This becomes important when calculating office reserve battery drains during commercial power failures, and when recharging the same office reserve battery after a prolonged outage. The following relationship applies. If the dc input current is equal to A amperes at normal (52.08v) float voltage, the current will be higher at a voltage lower than 52.08V and may be estimated from the following table:

Input Voltage, Volts	Input Current, Amperes
52.08	1.000
52.00	1.001
51.50	1.011
51.00	1.021
50.50	1.031
50.00	1.042
49.50	1.052
49.00	1.063
48.50	1.074
48.00	1.085
47.50	1.096

47.00	1.108
46.50	1.120
46.00	1.132
45.50	1.145
45.00	1.157
44.50	1.170
44.00	1.184
43.75	1.190
43.50	1.197
43.00	1.211
42.75	1.218
42.25	1.233
41.00	1.270
40.50	1.286
40.00	1.302
39.50	1.318
39.00	1.335

INFORMATION NOTE 311

Figures 8 & 9 are plots of current drains for the Communication Module 2 (CM2). This equipment consists of 2 to 12 cabinets in the J5D020A & B series of drawings; They are grown in pairs, with one being on bus 0 and the other on bus 1. The current drains for this equipment are already included in the other Figures of FS4 in this drawing and the individual drains are listed in FS3. To assist in the engineering of the CM2, current drains by cabinet are shown in Figures 8 and 9, and the following equations are given for long range planning purposes:

SINGLE FABRIC (See Figure 8)

For 2 to 30 Switching Modules

$$I = 23.9 \text{ Amperes} + 1.78 \text{ Amperes/Switching Module}$$

Or

$$I = 23.9 \text{ Amperes} + 0.00122 \text{ Amperes/line}$$

Dual Fabric (See Figures 8 and 9)

For 2 to 30 Switching Modules

$$I = 35.6 \text{ Amperes} + 1.40 \text{ Amperes/Switching Module}$$

Or

$$I = 35.6 \text{ Amperes} + 0.00094 \text{ Amperes/line}$$

For 32 to 190 Switching Modules

$$I = 12.0 \text{ Amperes} + 2.42 \text{ Amperes/Switching Module}$$

Or

$$I = 12.0 \text{ Amperes} + 0.00124 \text{ Amperes/line}$$