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R.E. Ginna Nuclear Unit #1

Docket No. 50-244

Design Analysis  
Adequacy of Station Electric Distribution  
System Voltages

December 6, 1979

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The electrical distribution system at the R.E. Ginna Nuclear Plant has been reviewed to determine if the potential exists for events or conditions that would be in violation of General Design Criteria (GDC) 17. This review was accomplished by performing a computer analysis aimed at assessing the electric system's capability to adequately supply all safety loads. Following the analysis, all events or conditions that could result in the loss of both offsite sources are discussed.

The analysis is based on an interactive computer load flow program that models the entire electrical distribution system so as to represent the plant operating modes as well as the anticipated electrical transient conditions. The load flow solutions then provide the bus voltages and the power flows on each bus for the various cases studied. The results of this analysis, particularly the voltage levels on the safety buses, were then evaluated to determine if a potential exists for low voltages that would cause spurious tripping from an offsite source. This would indicate that the system itself lacks sufficient capacity to automatically start and operate all required safety loads for those operating modes where low or degraded voltages potentially exist. Finally, all results, conclusions, future modifications or changes to operating limits resulting from this report will be summarized.

Design Analysis

## Load Flow

### Analysis

The inplant electrical distribution system at Ginna Station is shown on Figure I, the single line diagram. The offsite sources are two 34.5 Kv circuits, designated 767 and 751. Figure II is also a single line diagram of Ginna Station, however, it details the grid and the offsite sources. The primary source of offsite power is 767 circuit which is tied to the RG&E 115 Kv grid, Station 13A. The grid is operated at 117 Kv to 122 Kv normally with the plant "on line" and 115 Kv to 122 Kv with the plant "off line". When 767 circuit is out of service, 751 circuit is the offsite source and is operated at 34.5 Kv to 36.2 Kv. It should be noted that only one source is in service at a time. Should the inservice offsite source fail or trip out, the second offsite source must be manually placed into service. A diesel generator start will occur in the interim period.

The safeguards or IE distribution system is divided into two redundant and completely independent trains, A and B. As described in the Ginna Station FSAR, each train is designed to mitigate the consequences of the worst case accident. Train A and B are each made up of two safeguards 480 volt buses, train A consists of buses 14 and 18 while train B consists of buses 16 and 17. These safeguards buses are labeled as IE on the single line diagram, Figure I.

## Design Analysis





Presently, each IE bus contains two independent undervoltage (loss of voltage) systems, 27 and 27B. Each undervoltage monitor is set at approximately 65% of nominal voltage. However, after running many load flow cases representing all the operating conditions at Ginna, there were no voltages calculated to be at or lower than the 65% or 300 volt level. Therefore, no spurious tripping can be inferred and none has been experienced over the past ten operating years.

The existing undervoltage system will be upgraded and the loss of voltage systems setpoint will be raised to 77% with a maximum time delay of 8.5 seconds. In addition a second level, inverse time, system will be installed on each bus with the maximum setpoints shown on figure III. This figure shows the maximum proposed voltage and time values that will be part of the technical specifications. The maximum second level and the new loss of voltage setpoints are summarized as:

<u>Undervoltage System</u>	<u>Undervoltage Relay setpoint</u>	<u>Max. Time delay setpoint</u>
Loss of voltage	368 volts	$\leq$ 8.5 seconds
Degraded voltage	414 volts	$\leq$ 1600 seconds

Since the above are maximum values, the actual relay settings will be determined by this analysis and the operating limits will be imposed on the new undervoltage system.



That is, relay set points will be selected so that spurious tripping will not occur during normal operation which include motor starting and hot shutdown voltage transients.

For additional details of the new loss of voltage and second level systems, refer to references 1 and 2.

#### Operating Modes:

All the "on-line", "off-line", load, offsite voltage levels and inplant transient conditions have been evaluated in the load flow program. The "in-plant" bus voltages have been summarized for all of the operating modes and tabulated in the tables shown on Attachment I. Attachment I begins with an overall block diagram for the load flow study. This diagram identifies each case studied. The legend identifies the cases by operating mode and the offsite voltage levels. The case nomenclature will give additional information such as whether the plant is on line, off line, identify which of the two offsite sources is in service, the voltage level of the offsite source and the motor description if the case is addressing a transient condition.

The bus loads used for each group, that is, normal or light loads were obtained from the Ginna Electrical Logs and are shown on the single line diagram preceding each

group. The heavy loads were determined by assuming nearly all the loads connected to the buses are in service.

The output of the load flow program consists of a voltage summary which tabulates all the bus voltages for each case. The summary sheets are identified by case number and are grouped according to a particular operating mode. The bus voltages on each summary sheet were reviewed for abnormal levels using the following criteria.

Criteria:

The criteria for determining compliance to GDC-17 is as follows:

Continuous safeguard voltage levels higher than 484 volts and lower than 414 volts must be reviewed for either loss of life and/or change in performance and most importantly for a potential spurious tripping of the offsite source.

The voltage summaries shown in the tables have been summarized to determine both normal and abnormal levels. The criteria for determining abnormal or unacceptable voltage levels are:

1. Plant operating modes that result in the inplant bus voltages be at or below the loss of voltage set point of 368 volts are abnormal and will cause a trip of the offsite source and consequently violate GDC-17.
2. Any of the inplant bus voltages that can be be at or below the second level set point of 414 volts are abnormal and have the potential to violate GDC-17 depending on how long the voltage remain at or below this level.
3. Any of the inplant bus voltages that have been calculated to be equal to or greater than the upper ten percent design limit of the 440 volts base motors or 484 volts are abnormal and may result in a loss in insulation life.

Bus voltages that are between 414 and 484 volts on the Safeguard buses are defined as normal. Operating modes or conditions that result in normal voltage levels do not in any way compromise the offsite source and meet the intent of GDC-17.

### Results:

The cases listed on tables 1 and 2 have resulted in abnormal voltages as defined in the criteria section. Tabulated along with the case numbers are the bus designations, the voltage levels and the applicable resolution code. The resolution codes are defined below and are intended to group the cases according to:

- a) Whether the voltages are temporarily abnormal (less than 30 seconds) or are sustained at that level.
- b) Whether the voltages are abnormally high or low.
- c) Whether a change in existing operating modes are required to correct the abnormal condition.

### Resolution Codes:

Code 1 shall represent voltage levels that are greater than or equal to the upper 10% design value for the 440 volt motors, 484 volts. Voltage levels have been calculated to be as high as 516 volts (17%) for some operating conditions.

The consequences of this sustained condition were investigated by the manufacturer, Westinghouse Electric Corporation. It was determined that all safeguards motors can sustain overvoltages to 20% or 528 volts continuously without loss of normal insulation life with the exception of the two motors listed below:

Auxiliary Feedwater Pumps 250 HP motor - SO #67F59169 440 volts - If operated continuously at 528 volts, you could expect to have only 18% of the normal expected life span.

Service Water Pumps 300 HP motor - SO #67F90178 440 volts - If operated continuously at 528 volts, you could expect to receive 76% of the normal insulation life.

However, when these two motors were reviewed at overvoltages to 17% for intermittent periods, normal insulation life was achieved. Overvoltages occur for only short periods of time due to light loads and high offsite source voltages.

In addition all motors are inspected each year and if required are either redipped and baked or rewound. With this type of preventive maintenance program any degradation in the insulation material will be detected and corrected prior to any failure occurring.

Therefore, a resolution code 1 type of abnormal voltage conditions is acceptable and is consistent with GDC 17.

Code 2: shall represent transient voltage dips below 414 volts but above 368 volts due to motor starting conditions. These voltages are discussed in references 1 and 2. This voltage range represents the second level of undervoltage detection and the maximum allowable time plant operation is permitted in this range is determined by the proposed Technical Specification curve enclosed as Figure III.

The time duration associated with voltage dips due to to motor starting can be determined from the motor accelerating times tabulated below:

<u>Motor Load Description</u>	<u>Shop Order</u>	<u>Accelerating Time (Sec)</u>	<u>% Voltage**</u>
Auxiliary Feed Pump	67F59196	1.5	80
High Head Safety Inj. Pump	67F62572	4.0	80
Service Water Pump	67F90178	0.8	90
Air Recirculation Fans	68F13557	14.5	90
Component Cooling Water Pump	67B63045	1.4	80
Containment Spray Pump	67C66341	<5	90
RHR/SILH/RECIRC	67C68831	1.3	80
RCP	-	15	100%*

Notes: \*Determined from field voltage measurements at 100% voltage

\*\*For conservatism, the accelerating times for the

IE motors shown were determined at less than full voltage.





The lowest inplant bus voltages due to motor starting conditions are determined in the transient cases. Each bus voltage shown in the corresponding summary sheets represents the lowest voltage in the transient. The duration of this transient exist until the motor accelerates to its rated speed. Since the longest time is in the order of 15 seconds, there is sufficient margin in which to set the time delay on the second level undervoltage relays without exceeding the curve on Figure III. That is, the second level relaying scheme will be set so that all tolerable voltages within the second level range will be ignored. Since the second level of undervoltage protection will protect against sustained degraded voltage conditions and since the relays will allow for short term voltage transients due to normal starting conditions which is a code 2 condition. Therefore, a code 2 abnormal voltage condition is acceptable and consistent with GDC-17.

Code 3: shall refer to voltage levels that are sustained below 414 volts or are below 368 volts for any period of time. The only resolution for these abnormal voltages would be to avoid those operating conditions that have the potential of producing such levels. The cases studied in the load flow program included those outside the normal operating range. Specifically, the 115 kV

grid and the primary offsite source, 767 circuit are operated at 117 kV to 122 kV with the plant on or off line. However, with the plant off line the in plant bus voltages were determined for grid value of 113 kV and 115 kV. These lower levels are not within the normal grid range. This same approach applies to the second offsite source, 751 circuit. This circuit is normally operated at 34.6 kV, 36.2 kV. However, some cases were run at 33.2 kV. Low inplant bus voltage resulting from this lower than normal offsite voltage is considered acceptable and not in violation to GDC-17.

Low voltage with a Code 3A refer to unacceptable inplant voltages that result from normal offsite voltages.

This requires a change in operating practices and will be discussed in the conclusion section of this report.

### Special Cases

The special cases shown on the block diagram deal with the hot shutdown transient. That is, the plant is at full power and then trips offline, placing all the nonsafeguards loads onto the startup transformer. Initially, the load is heavy and reduces over a three hour period. This causes an initial voltage drop which improves as the load reduces.

### Design Analysis

## Test Program

A test program will be initiated that will monitor all the safety bus voltage levels for all the plant conditions studied in the load flow analysis. This will be a one or two year test program and the measured results will be compared to the calculated values. The test program will consist of installing recording voltmeters, ammeters and wattmeters on all safety buses and the offsite 4 kV buses. The recorded voltage levels will be tabulated along with the bus loads for actual steady state and transient plant condition.

## Conclusion

The only unresolved abnormal voltage conditions are those coded as 3A. After reviewing the operating conditions that result in a code 3A, it can be determined that:

- 1 - The second offsite source 751 circuit must be maintained at 35 kV or above. This will insure that those inplant bus voltages will meet the established criteria.

## Design Analysis

- 2 - The bus sections at Station 13A must be maintained at 120 kV for plant startup conditions. This will insure that the inplant voltages meet the established criteria when 767 circuit is inservice.

Plant operating records indicate that offsite grid voltages that can result in unacceptable inplant voltages occur very infrequently if not at all, however, the potential does exist. Once the off-site levels are increased to insure only normal voltage, then it can be concluded that the startup transformer and either offsite source has sufficient capacity to automatically start and operate all required safety loads.

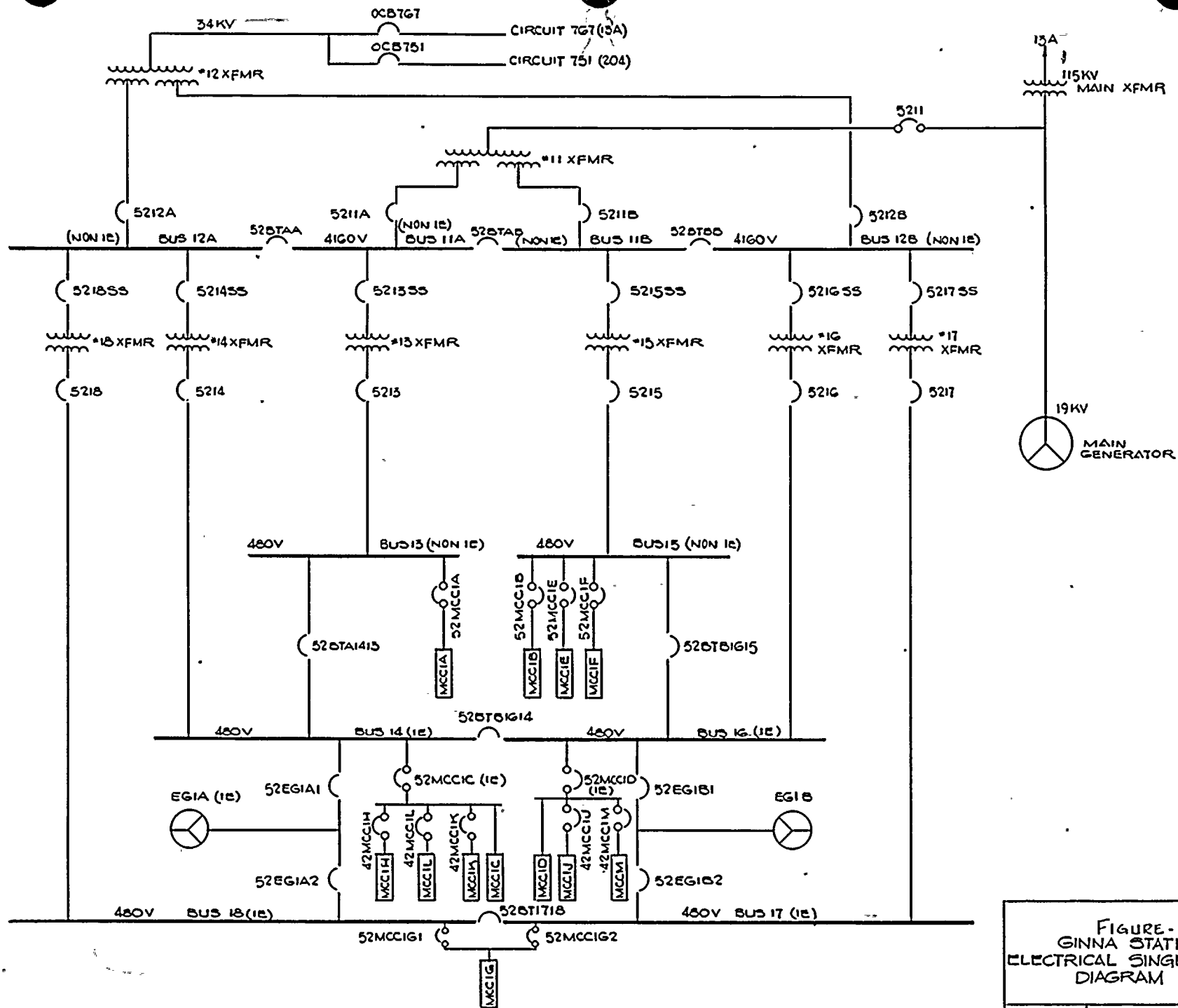
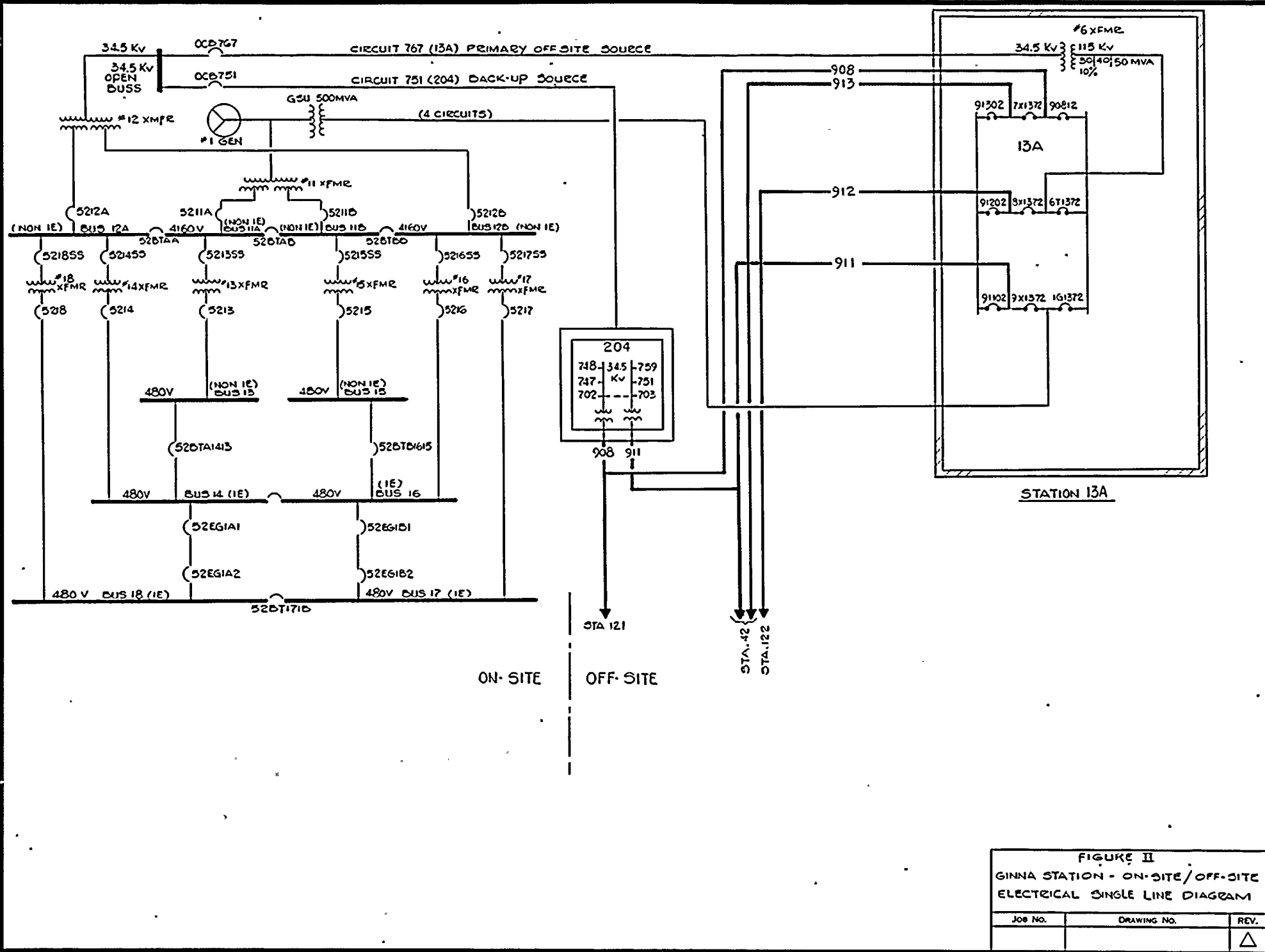


FIGURE-1  
GINNA STATION  
ELECTRICAL SINGLE LINE  
DIAGRAM







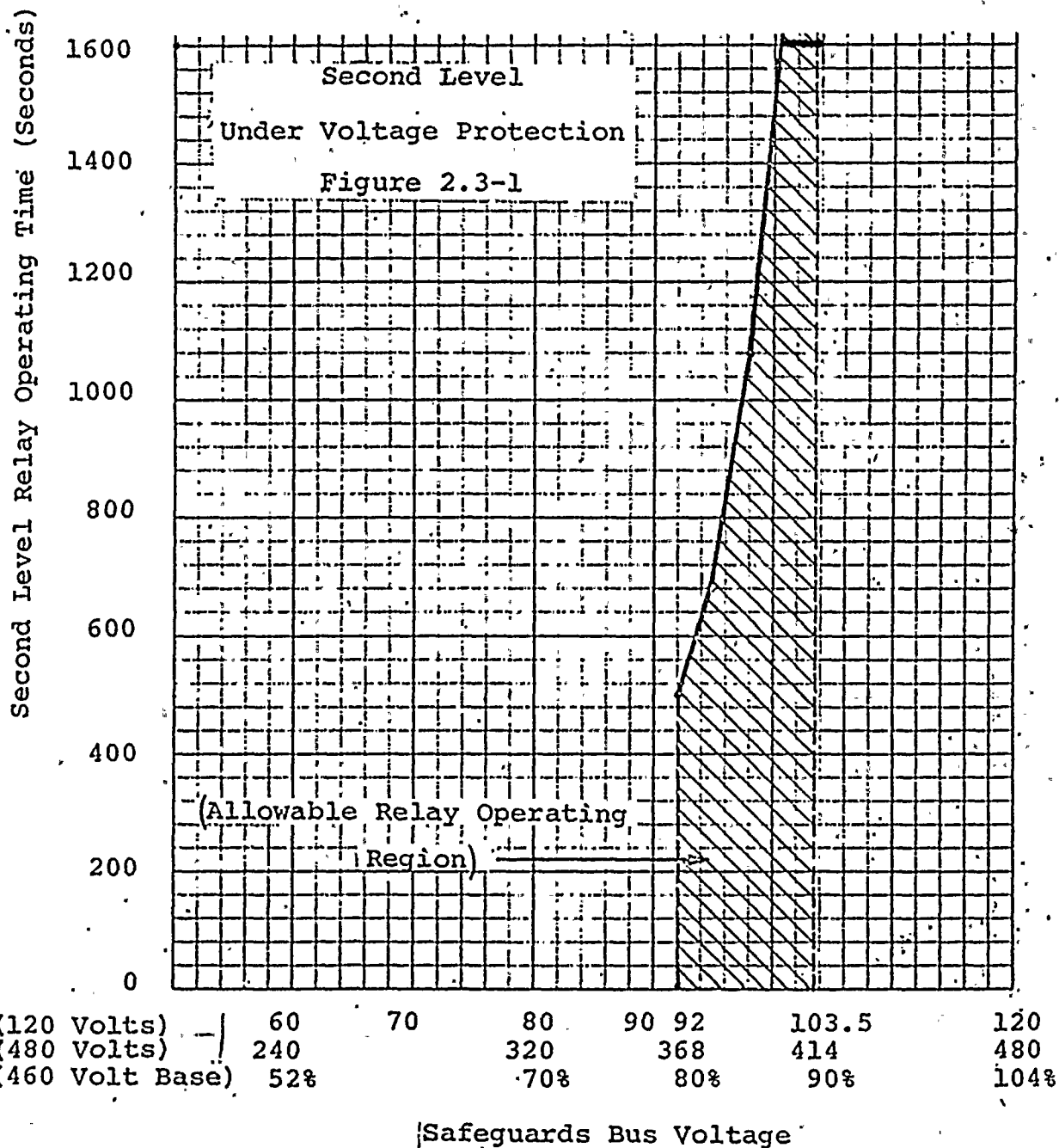


FIGURE III



TABLE 1

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE
1 ONN-1-3	16 485.7	1	74 OFH-2-1	1D 378.7	3
2 ONN-1-3	18 484.4	1	75 OFH-2-1	15 413.1	3
3 ONN-1-3	15 487.1	1	76 OFH-2-1	18 406.9	3
4 ONN-2-1	15 487.1	1	77 OFH-2-1	17 407.0	3
5 ONN-2-2	15 487.1	1	78 OFH-2-1	13 413.0	3
6 ONN-2-3	15 487.1	1	79 OFH-2-2	14 404.8	3A
7 ONN-2-4	18 490.7	1	80 ONH-2-2	1C 401.4	3A
8 ONN-2-4	17 480.2	1	81 OFH-2-2	16 404.9	3A
9 ONN-2-4	15 487.1	1	82 OFH-2-2	1D 401.5	3A
10 ONN-2-4	14 489.3	1	83 OFH-2-5	15 485.1	1
11 ONN-2-4	16 492.0	1	84 OFH-2-5	13 485.0	1
12 ONN-2-4	1D 485.7	1	85 OFL-1-4	16 484.3	1
13 ONN-2-5	18 513.9	1	86 OFL-2-4	14 488.5	1
14 ONN-2-5	17 503.8	1	87 OFL-2-4	16 490.2	1
15 ONN-2-5	15 487.1	1	88 OFL-2-4	1D 487.1	1
16 ONN-2-5	14 512.5	1	89 OFL-2-4	13 487.7	1
17 ONN-2-5	1C 506.5	1	90 OFL-2-4	18 488.7	1
18 ONN-2-5	16 515.1	1	91 OFL-2-4	17 490.0	1
19 ONN-2-5	1D 509.1	1	92 OFL-2-4	15 487.8	1
20 ONH-1-3	13 488.4	1	93 OFL-2-5	14 511.8	1
21 ONH-1-3	15 488.5	1	94 OFL-2-5	1C 507.3	1
22 ONH-2-1	11 411.6	3	95 OFL-2-5	16 513.5	1
23 ONH-2-1	1C 408.3	3	96 OFL-2-5	1D 510.5	1
24 ONH-2-1	16 411.7	3	97 OFL-2-5	13 511.1	1
25 ONH-2-1	1D 408.4	3	98 OFL-2-5	18 512.0	1
26 ONH-2-5	18 502.6	1	99 OFL-2-5	17 513.3	1
27 ONH-2-5	17 502.6	1	100 OFL-2-5	15 511.2	1
28 ONL-1-3	16 486.3	1	101 ONTS-1-3	13 486.4	1
29 ONL-1-3	13 491.5	1	102 ONTS-1-3A	13 486.4	1
30 ONL-1-3	18 484.7	1	103 ONTS-1-4	14 399.8	2
31 ONL-1-3	17 486.0	1	104 ONTS-1-4	1C 392.0	2
32 ONL-1-3	15 491.6	1	105 ONTS-1-5	14 408.1	2
33 ONL-2-4	18 491.0	1	106 ONTS-1-5	1C 400.4	2
34 ONL-2-4	17 492.4	1	107 ONTS-1-6	1C 412.6	2
35 ONL-2-4	14 490.8	1	108 ONTS-1-6	13 486.4	2
36 ONL-2-4	1C 486.2	1	109 ONTS-1-6	13 486.4	2
37 ONL-2-4	16 492.6	1	110 ONTS-1-7	13 408.6	2
38 ONL-2-4	1D 489.5	1	111 ONTS-1-8	13 416.5	2
39 ONL-2-5	18 514.2	1	112 ONTS-1-9	18 483.0	1
40 ONL-2-5	17 515.5	1	113 ONTS-1-9A	13 486.5	1
41 ONL-2-5	14 514.0	1	114 ONTS-2-1	1C 405.0	2
42 ONL-2-5	1C 509.5	1	115 ONTS-2-4	14 484.8	1
43 ONL-2-5	16 515.7	1	116 ONTS-2-5	14 402.8	2
44 ONL-2-5	1D 512.7	1	117 ONTS-2-5	1C 395.0	2
45 OFN-2-4	16 484.4	1	118 ONTS-2-6	14 416.5	2
46 OFN-2-4	15 485.5	1	119 ONTS-2-6	1C 409.0	2
47 OFN-2-4	17 485.3	1	120 ONTN-1-3	16 485.2	1
48 OFN-2-5	14 499.0	1	121 ONTN-1-3	15 487.1	1
49 OFN-2-5	1C 492.8	1	122 ONTN-1-3A	16 485.7	1
50 OFN-2-5	16 507.7	1	123 ONTN-1-3A	18 484.3	1
51 OFN-2-5	1D 503.2	1	124 ONTN-1-3A	15 487.1	1
52 OFN-2-5	15 508.8	1	125 ONTN-1-4	1C 415.4	2
53 OFN-2-5	18 502.5	1	126 ONTN-1-6	15 487.1	1
54 OFN-2-5	17 508.6	1	127 ONTN-1-6A	16 485.7	1
55 OFN-2-5	13 506.2	1	128 ONTN-1-6A	18 484.4	1
56 OFH-1-1	18 410.4	3	129 ONTN-1-6A	15 487.1	1
57 OFH-1-1	17 410.5	3	130 ONTN-1-7	13 399.9	2
58 OFH-1-1	13 416.4	3	131 ONTN-1-8	13 408.0	2
59 OFH-1-1	14 385.9	3	132 ONTN-1-9	16 485.7	1
60 OFH-1-1	1C 382.4	3	133 ONTN-1-9	18 484.4	1
61 OFH-1-1	16 386.1	3	134 ONTN-1-9	15 484.6	1
62 OFH-1-1	1D 382.5	3	135 ONTN-1-9A	16 485.7	1
63 OFH-1-2	14 395.7	3	136 ONTN-1-9A	18 484.4	1
64 OFH-1-2	1C 392.3	3	137 ONTN-1-9A	15 487.0	1
65 OFH-1-2	16 395.9	3	138 ONTN-1-9B	16 485.7	1
66 OFH-1-2	1D 392.4	3	139 ONTN-1-9B	13 487.6	1
67 OFH-1-3	14 410.5	3	140 ONTN-1-9B	18 484.4	1
68 OFH-1-3	1C 407.1	3	141 ONTN-1-9B	15 487.4	1
69 OFH-1-3	16 410.6	3	142 ONTN-2-4	14 409.2	2
70 OFH-1-3	1D 407.3	3	143 ONTN-2-4	1C 401.5	2
71 OFH-2-1	14 382.2	3	144 ONTN-2-6A	16 485.1	1
72 OFH-2-1	1C 378.2	3	145 OFTS-1-0	17 402.3	2
73 OFH-2-1	16 382.3	3	146 OFTS-1-0	13 406.4	2

TABLE 1 (continued)

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS. VOLTAGE	RESOLUTION CODE
147 OFTS-1-0	14 390.5	2	220 OFTS-1-10	15 373.5	3A
148 OFTS-1-0	1C 373.8	2	221 OFTS-1-10A	14 406.0	3A
149 OFTS-1-1	16 394.3	2	222 OFTS-1-10A	1C 398.3	3A
150 OFTS-1-0	1D 388.4	2	223 OFTS-1-10A	16 408.7	3A
151 OFTS-1-0	15 398.2	2	224 OFTS-1-10A	1D 403.1	3A
152 OFTS-1-1	17 413.4	2	225 OFTS-1-10A	15 412.5	3A
153 OFTS-1-1	14 401.7	2	226 OFTS-1-11	18 369.3	3A
154 OFTS-1-1	1C 385.0	2	227 OFTS-1-11	17 390.7	2
155 OFTS-1-1	16 405.7	2	228 OFTS-1-11	13 359.5	3A
156 OFTS-1-1	1D 400.0	2	229 OFTS-1-11	14 347.5	3A
157 OFTS-1-1	15 409.4	2	230 OFTS-1-11	1C 338.4	3A
158 OFTS-1-1A	17 413.8	3	231 OFTS-1-11	16 382.4	2
159 OFTS-1-1A	14 407.3	3	232 OFTS-1-1	1D 376.4	2
160 OFTS-1-1A	1C 398.8	3	233 OFTS-1-11	15 386.5	2
161 OFTS-1-1A	16 406.0	3	234 OFTS-1-11A	1C 412.2	3A
162 OFTS-1-1A	1D 400.3	3	235 OFTS-1-12	18 384.6	2
163 OFTS-1-1A	15 409.8	3	236 OFTS-1-12	17 407.7	2
164 OFTS-1-2	14 410.6	2	237 OFTS-1-12	13 375.2	2
165 OFTS-1-2	1C 394.0	2	238 OFTS-1-12	14 363.9	2
166 OFTS-1-2	1D 409.2	2	239 OFTS-1-12	1C 355.2	3A
167 OFTS-1-2A	1C 408.1	3	240 OFTS-1-12	16 399.8	2
168 OFTS-1-2A	16 415.2	3	241 OFTS-1-12	1D 394.0	2
169 OFTS-1-2A	1D 409.7	3	242 OFTS-1-12	15 403.7	2
170 OFTS-1-2A	15 418.9	3	243 OFTS-2-1	14 398.8	2
171 OFTS-1-3	1C 407.6	2	244 OFTS-2-1	1C 382.2	2
172 OFTS-1-5	17 410.7	2	245 OFTS-2-1	16 402.8	2
173 OFTS-1-5	13 412.6	2	246 OFTS-2-1	1D 397.0	2
174 OFTS-1-5	16 402.9	2	247 OFTS-2-1	15 406.6	2
175 OFTS-1-5	1D 397.2	2	248 OFTS-2-1	17 410.6	2
176 OFTS-1-5	15 406.7	2	249 OFTS-2-1A	14 404.5	2
177 OFTS-1-5A	17 413.5	3	250 OFTS-2-1A	1C 395.9	2
178 OFTS-1-5A	13 417.6	3	251 OFTS-2-1A	16 403.2	2
179 OFTS-1-5A	14 402.5	3	252 OFTS-2-1A	1D 397.2	2
180 OFTS-1-5A	1C 394.7	3	253 OFTS-2-1A	15 407.0	2
181 OFTS-1-5A	16 405.8	3	254 OFTS-2-1A	17 411.0	2
182 OFTS-1-5A	1D 400.1	3	255 OFTS-2-2	1C 402.8	2
183 OFTS-1-5A	15 409.5	3	256 OFTS-2-5	14 363.4	3
184 OFTS-1-6	14 374.3	2	257 OFTS-2-5	1C 354.7	3
185 OFTS-1-6	1C 365.8	2	258 OFTS-2-5	16 400.2	2
186 OFTS-1-6	16 412.0	2	259 OFTS-2-5	1D 394.4	2
187 OFTS-1-6	1D 406.4	2	260 OFTS-2-5	15 404.0	2
188 OFTS-1-6A	14 411.5	3	261 OFTS-2-5	17 408.1	2
189 OFTS-1-6A	1C 403.9	3	262 OFTS-2-5	13 410.0	2
190 OFTS-1-6A	16 414.9	3	263 OFTS-2-5A	14 399.5	3
191 OFTS-1-6A	1D 409.3	3	264 OFTS-2-5A	1C 391.7	3
192 OFTS-1-7	14 386.9	2	265 OFTS-2-5A	16 402.7	3
193 OFTS-1-7	1C 378.7	2	266 OFTS-2-5A	1D 397.0	3
194 OFTS-1-7A	1C 417.8	2	267 OFTS-2-5A	15 406.5	3
195 OFTS-1-8	14 403.7	2	268 OFTS-2-5A	17 410.6	3
196 OFTS-1-8	1C 396.0	2	269 OFTS-2-6	14 382.6	2
197 OFTS-1-9	18 350.6	2	270 OFTS-2-6	1C 374.4	2
198 OFTS-1-9	17 369.6	2	271 OFTS-2-6A	1C 412.9	2
199 OFTS-1-9	13 340.1	3	272 OFTS-2-7	14 397.2	2
200 OFTS-1-9	14 327.3	3	273 OFTS-2-7	1C 389.2	2
201 OFTS-1-9	1C 317.6	3	274 OFTS-2-8	14 407.0	2
202 OFTS-1-9	16 360.7	3	275 OFTS-2-8	1C 399.3	2
203 OFTS-1-9	1D 354.2	3	276 OFTS-2-9	1C 317.7	3
204 OFTS-1-9	15 365.1	3	277 OFTS-2-9A	14 393.1	3
205 OFTS-1-9A	18 415.9	3	278 OFTS-2-9A	1C 385.1	3
206 OFTS-1-9A	17 407.6	3	279 OFTS-2-9A	16 395.5	3
207 OFTS-1-9A	13 407.4	3	280 OFTS-2-9A	1D 389.7	3
208 OFTS-1-9A	14 397.1	3	281 OFTS-2-9A	15 399.4	3
209 OFTS-1-9A	1C 389.2	3	282 OFTS-2-9A	18 412.1	3
210 OFTS-1-9A	16 399.7	3	283 OFTS-2-9A	17 403.5	3
211 OFTS-1-9A	1D 393.9	3	284 OFTS-2-9A	13 403.5	3
212 OFTS-1-9A	15 403.5	3	285 OFTS-2-10	14 346.0	3A
213 OFTS-1-10	18 357.9	3	286 OFTS-2-10	1C 336.8	3A
214 OFTS-1-10	17 377.9	3A	287 OFTS-2-10	16 380.7	2
215 OFTS-1-10	13 347.7	3A	288 OFTS-2-10	1D 374.7	2
216 OFTS-1-10	14 335.2	3A	289 OFTS-2-10	15 384.8	2
217 OFTS-1-10	1C 325.7	3A	290 OFTS-2-10	19 368.0	2
218 OFTS-1-10	16 369.2	3A	291 OFTS-2-10	17 389.1	2
219 OFTS-1-10	1D 363.0	3A	292 OFTS-2-10	13 358.1	3A



TABLE 1 (continued)

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE
293 OFTS-2-10A	14 413.6	3A	366 OFSU-2-1	15 319.4	3
294 OFTS-2-10A	1C 406.0	3A	367 OFSU-2-1	18 357.3	3
295 OFTS-2-10A	1D 410.9	3A	368 OFSU-2-1	17 324.7	3
296 OFTS-2-11	14 360.1	2	369 OFSU-2-1	13 347.1	3
297 OFTS-2-11	1C 351.3	2	370 OFSU-2-1A	14 371.2	3
298 OFTS-2-11	16 395.8	2	371 OFSU-2-1A	1C 362.7	3
299 OFTS-2-11	1D 389.9	2	372 OFSU-2-1A	16 379.1	3
300 OFTS-2-11	15 399.7	2	373 OFSU-2-1A	1D 373.0	3
301 OFTS-2-11	18 381.0	2	374 OFSU-2-1A	15 383.2	3
302 OFTS-2-11	17 403.8	2	375 OFSU-2-1A	18 391.5	3
303 OFTS-2-11	13 371.5	2	376 OFSU-2-1A	17 387.5	3
304 OFTS-2-12	14 369.7	2	377 OFSU-2-1A	13 382.4	3
305 OFTS-2-12	1C 361.2	2	378 OFSU-2-2	14 356.4	3A
306 OFTS-2-12	16 406.0	2	379 OFSU-2-2	1C 347.6	3A
307 OFTS-2-12	1D 400.4	2	380 OFSU-2-2	16 333.8	3A
308 OFTS-2-12	15 409.8	2	381 OFSU-2-2	1D 326.0	3A
309 OFTS-2-12	18 390.1	2	382 OFSU-2-2	15 338.6	3A
310 OFTS-2-12	17 413.8	2	383 OFSU-2-2	18 377.7	2
311 OFTS-2-12	13 380.8	2	384 OFSU-2-2	17 343.6	3A
312 OFSU-1-1	18 367.6	3	385 OFSU-2-2	13 368.2	3
313 OFSU-1-1	17 334.2	3	386 OFSU-2-2A	14 393.8	3A
314 OFSU-1-1	13 357.8	3	387 OFSU-2-2A	1C 385.8	3A
315 OFSU-1-1	14 345.6	3	388 OFSU-2-2A	16 400.7	3A
316 OFSU-1-1	1C 336.4	3	389 OFSU-2-2A	1D 394.9	3A
317 OFSU-1-1	16 324.2	3	390 OFSU-2-2A	15 404.5	3A
318 OFSU-1-1	1D 317.0	3	391 OFSU-2-2A	18 412.8	3A
319 OFSU-1-1	15 329.0	3	392 OFSU-2-2A	17 408.6	3A
320 OFSU-1-1A	18 406.6	3	393 OFSU-2-2A	13 404.2	3A
321 OFSU-1-1A	17 402.5	3	394 OFSU-2-3	14 372.7	2
322 OFSU-1-1A	13 397.9	3	395 OFSU-2-3	1C 364.2	3A
323 OFSU-1-1A	14 387.3	3	396 OFSU-2-3	16 348.5	3A
324 OFSU-1-1A	1C 379.2	3	397 OFSU-2-3	1D 341.8	3A
325 OFSU-1-1A	16 394.5	3	398 OFSU-2-3	15 352.9	3A
326 OFSU-1-1A	1D 388.6	3	399 OFSU-2-3	17 357.8	3A
327 OFSU-1-1A	15 398.4	3	400 OFSU-2-3	13 383.0	2
328 OFSU-1-2	18 376.3	3	401 OFSU-2-3A	14 410.6	3A
329 OFSU-1-2	17 342.4	3	402 OFSU-2-3A	1C 403.0	3A
330 OFSU-1-	13 366.8	3	403 OFSU-2-3A	1D 411.3	3A
331 OFSU-1-2	14 355.0	3	404 OFSU-2-4	14 383.8	2
332 OFSU-1-2	1C 346.1	3	405 OFSU-2-4	1C 375.6	2
333 OFSU-1-2	16 332.5	3	406 OFSU-2-4	16 358.6	3A
334 OFSU-1-2	1D 325.5	3	407 OFSU-2-4	1D 352.1	3A
335 OFSU-1-2	15 337.3	3	408 OFSU-2-4	15 362.8	3A
336 OFSU-1-2A	17 411.5	3	409 OFSU-2-4	18 403.3	2
337 OFSU-1-2A	13 407.2	3	410 OFSU-2-4	17 367.5	2
338 OFSU-1-2A	14 396.9	3	411 OFSU-2-4	13 394.5	2
339 OFSU-1-2A	1C 389.0	3	412 OFNHS-1-1A	17 403.1	3A
340 OFSU-1-2A	16 403.7	3	413 OFNHS-1-1A	13 402.6	3A
341 OFSU-1-2A	1D 398.0	3	414 OFNHS-1-1A	14 393.3	3A
342 OFSU-1-2A	15 407.5	3	415 OFNHS-1-1A	1C 385.3	3A
343 OFSU-1-3	18 390.5	2	416 OFNHS-1-1A	16 402.0	3A
344 OFSU-1-3	17 355.6	3A	417 OFNHS-1-1A	1D 396.3	3A
345 OFSU-1-3	13 381.3	2	418 OFNHS-1-1A	15 403.4	3A
346 OFSU-1-3	14 370.2	2	419 OFNHS-1-1B	18 408.2	3A
347 OFSU-1-3	1C 361.6	3A	420 OFNHS-1-1B	17 413.3	3A
348 OFSU-1-3	16 346.2	3A	421 OFNHS-1-1B	13 412.8	3A
349 OFSU-1-3	1D 339.5	3A	422 OFNHS-1-1B	14 403.8	3A
350 OFSU-1-3	15 350.7	3A	423 OFNHS-1-1B	1C 396.0	3A
351 OFSU-1-3A	14 412.6	3A	424 OFNHS-1-1B	16 412.2	3A
352 OFSU-1-3A	1C 405.1	3A	425 OFNHS-1-1B	1D 406.6	3A
353 OFSU-1-3A	1D 413.3	3A	426 OFNHS-1-1B	15 413.6	3A
354 OFSU-1-4	18 398.6	3A	427 OFNHS-1-2A	18 407.6	3A
355 OFUS-1-4	17 363.2	3A	428 OFNHS-1-2A	17 412.8	3A
356 OFSU-1-4	13 389.7	2	429 OFNHS-1-2A	13 412.2	3A
357 OFSU-1-4	14 378.8	2	430 OFNHS-1-2A	14 403.2	3A
358 OFSU-1-4	1C 370.5	2	431 OFNHS-1-2A	1C 395.4	3A
359 OFSU-1-4	16 354.0	3A	432 OFNHS-1-2A	16 411.7	3A
360 OFSU-1-4	1D 347.5	3A	433 OFNHS-1-2A	1D 406.1	3A
361 OFSU-1-4	15 358.4	3A	434 OFNHS-1-2A	15 413.0	3A
362 OFSU-2-1	14 334.5	3	435 OFNHS-1-2B	18 417.7	3A
363 OFSU-2-1	1C 325.0	3	436 OFNHS-1-2B	14 413.4	3A
364 OFSU-2-1	16 314.5	3	437 OFNHS-1-2B	1C 405.8	3A
365 OFSU-2-1	1D 307.2	3	438 OFNHS-2-1A	18 403.0	3A

TABLE 1 (continued)

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE
439 OFNHS-2-1A	17 408.2	3A			
440 OFNHS-2-1A	13 407.7	3A			
441 OFNHS-2-1A	14 398.6	3A			
442 OFNHS-2-1A	1C 390.7	3A			
443 OFNHS-2-1A	16 407.1	3A			
444 OFNHS-2-1A	1D 401.5	3A			
445 OFNHS-2-1A	15 408.5	3A			
446 OFNHS-2-1B	14 410.1	3A			
447 OFNHS-2-1B	1C 402.5	3A			
448 OFNHS-2-1B	1D 412.9	3A			
449 OFNHS-2-2A	1C 408.3	3A			
450 OFSU-2-3	18 392.9	2			





TABLE 2

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE
1 ONN-1-3	16 485.7	1	115 ONTS-2-4	14 484.8	1
2 ONN-1-3	18 484.4	1	120 ONTN-1-3	16 485.2	1
3 ONN-1-3	15 487.1	1	121 ONTN-1-3	15 487.1	1
4 ONN-2-1	15 487.1	1	122 ONTN-1-3A	16 485.7	1
5 ONN-2-2	15 487.1	1	123 ONTN-1-3A	18 484.3	1
6 ONN-2-3	15 487.1	1	124 ONTN-1-3A	15 487.1	1
7 ONN-2-4	18 490.7	1	126 ONTN-1-6	15 487.1	1
8 ONN-2-4	17 480.2	1	127 ONTN-1-6A	16 485.7	1
9 ONN-2-4	15 487.1	1	128 ONTN-1-6A	18 484.4	1
10 ONN-2-4	14 489.3	1	129 ONTN-1-6A	15 487.1	1
11 ONN-2-4	16 492.0	1	132 ONTN-1-9	16 485.7	1
12 ONN-2-4	1D 485.7	1	133 ONTN-1-9	18 484.4	1
13 ONN-2-5	18 513.9	1	134 ONTN-1-9	15 484.6	1
14 ONN-2-5	17 503.8	1	135 ONTN-1-9A	16 485.7	1
15 ONN-2-5	15 487.1	1	136 ONTN-1-9A	18 484.4	1
16 ONN-2-5	14 512.5	1	137 ONTN-1-9A	15 487.0	1
17 ONN-2-5	1C 506.5	1	138 ONTN-1-9B	16 485.7	1
18 ONN-2-5	16 515.1	1	139 ONTN-1-9B	13 487.6	1
19 ONN-2-5	1D 509.1	1	140 ONTN-1-9B	18 484.4	1
20 ONH-1-3	13 488.4	1	141 ONTN-1-9B	15 487.4	1
21 ONH-1-3	15 488.5	1	144 ONTN-2-6A	16 485.1	1
26 ONH-2-5	18 502.6	1			
27 ONH-2-5	17 502.6	1			
28 ONL-1-3	16 486.3	1			
29 ONL-1-3	13 491.5	1			
30 ONL-1-3	18 484.7	1			
31 ONL-1-3	17 486.0	1			
32 ONL-1-3	15 491.6	1			
33 ONL-2-4	18 491.0	1			
34 ONL-2-4	17 492.4	1			
35 ONL-2-4	14 490.8	1			
36 ONL-2-4	1C 486.2	1			
37 ONL-2-4	16 492.6	1			
38 ONL-2-4	1D 489.5	1			
39 ONL-2-5	18 514.2	1			
40 ONL-2-5	17 515.5	1			
41 ONL-2-5	14 514.0	1			
42 ONL-2-5	1C 509.5	1			
43 ONL-2-5	16 515.7	1			
44 ONL-2-5	1D 512.7	1			
45 OFN-2-4	16 484.4	1			
46 OFN-2-4	15 485.5	1			
47 OFN-2-4	17 485.3	1			
48 OFN-2-5	14 499.0	1			
49 OFN-2-5	1C 492.8	1			
50 OFN-2-5	16 507.7	1			
51 OFN-2-5	1D 503.2	1			
52 OFN-2-5	15 508.8	1			
53 OFN-2-5	18 502.5	1			
54 OFN-2-5	17 508.6	1			
55 OFN-2-5	13 506.2	1			
83 OFH-2-5	15 485.1	1			
84 OFH-2-5	13 485.0	1			
85 OFL-1-4	16 484.3	1			
86 OFL-2-4	14 488.5	1			
87 OFL-2-4	16 490.2	1			
88 OFL-2-4	1D 487.1	1			
89 OFL-2-4	13 487.7	1			
90 OFL-2-4	18 488.7	1			
91 OFL-2-4	17 490.0	1			
92 OFL-2-4	15 487.8	1			
93 OFL-2-5	14 511.8	1			
94 OFL-2-5	1C 507.3	1			
95 OFL-2-5	16 513.5	1			
96 OFL-2-5	1D 510.5	1			
97 OFL-2-5	13 511.1	1			
98 OFL-2-5	18 512.0	1			
99 OFL-2-5	17 513.3	1			
100 OFL-2-5	15 511.2	1			
101 ONTS-1-3	13 486.4	1			
102 ONTS-1-3A	13 486.4	1			
112 ONTS-1-9	18 483.0	1			
113 ONTS-1-9A	13 486.5	1			



TABLE 2 (continued)

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE
103 ONTS-1-4	14 399.8	2	253 OFTS-2-1A	15 407.0	2
104 ONTS-1-4	1C 392.0	2	254 OFTS-2-1A	17 411.0	2
105 ONTS-1-5	14 408.1	2	255 OFTS-2-2	1C 402.8	2
106 ONTS-1-5	1C 400.4	2	258 OFTS-2-5	16 400.2	2
107 ONTS-1-6	1C 412.6	2	259 OFTS-2-5	1D 394.4	2
108 ONTS-1-6	13 486.4	2	260 OFTS-2-5	15 404.0	2
109 ONTS-1-6	13 486.4	2	261 OFTS-2-5	17 408.1	2
110 ONTS-1-7	13 408.6	2	262 OFTS-2-5	13 410.0	2
111 ONTS-1-8	13 416.5	2	269 OFTS-2-6	14 382.6	2
114 ONTS-2-1	1C 405.0	2	270 OFTS-2-6	1C 374.4	2
116 ONTS-2-5	14 402.8	2	271 OFTS-2-6A	1C 412.9	2
117 ONTS-2-5	1C 395.0	2	272 OFTS-2-7	14 397.2	2
118 ONTS-2-6	14 416.5	2	273 OFTS-2-7	1C 389.2	2
119 ONTS-2-6	1C 409.0	2	274 OFTS-2-8	14 407.0	2
125 ONTN-1-4	1C 415.4	2	275 OFTS-2-8	1C 399.3	2
130 ONTN-1-7	13 399.9	2	287 OFTS-2-10	16 380.7	2
131 ONTN-1-8	13 408.0	2	288 OFTS-2-10	1D 374.7	2
142 ONTN-2-4	14 409.2	2	289 OFTS-2-10	15 384.8	2
143 ONTN-2-4	1C 401.5	2	290 OFTS-2-10	19 368.0	2
145 OFTS-1-0	17 402.3	2	291 OFTS-2-10	17 389.1	2
146 OFTS-1-0	13 406.4	2	296 OFTS-2-11	14 360.1	2
147 OFTS-1-0	14 390.5	2	297 OFTS-2-11	1C 351.3	2
148 OFTS-1-0	1C 373.8	2	298 OFTS-2-11	16 395.8	2
149 OFTS-1-1	16 394.3	2	299 OFTS-2-11	1D 389.9	2
150 OFTS-1-0	1D 388.4	2	300 OFTS-2-11	15 399.7	2
151 OFTS-1-0	15 398.2	2	301 OFTS-2-11	18 381.0	2
152 OFTS-1-1	17 413.4	2	302 OFTS-2-11	17 403.8	2
153 OFTS-1-1	14 401.7	2	303 OFTS-2-11	13 371.5	2
154 OFTS-1-1	1C 385.0	2	304 OFTS-2-12	14 369.7	2
155 OFTS-1-1	16 405.7	2	305 OFTS-2-12	1C 361.2	2
156 OFTS-1-1	1D 400.0	2	306 OFTS-2-12	16 406.0	2
157 OFTS-1-1	15 409.4	2	307 OFTS-2-12	1D 400.4	2
164 OFTS-1-2	14 410.6	2	308 OFTS-2-12	15 409.8	2
165 OFTS-1-2	1C 394.0	2	309 OFTS-2-12	18 390.1	2
166 OFTS-1-2	1D 409.2	2	310 OFTS-2-12	17 413.8	2
171 OFTS-1-3	1C 407.6	2	311 OFTS-2-12	13 380.8	2
172 OFTS-1-5	17 410.7	2	343 OFSU-1-3	18 390.5	2
173 OFTS-1-5	13 412.6	2	345 OFSU-1-3	13 381.3	2
174 OFTS-1-5	16 402.9	2	346 OFSU-1-3	14 370.2	2
175 OFTS-1-5	1D 397.2	2	356 OFSU-1-4	13 389.7	2
176 OFTS-1-5	15 406.7	2	357 OFSU-1-4	14 378.8	2
184 OFTS-1-6	14 374.3	2	358 OFSU-1-4	1C 370.5	2
185 OFTS-1-6	1C 365.8	2	383 OFSU-2-2	18 377.7	2
186 OFTS-1-6	16 412.0	2	394 OFSU-2-3	14 372.7	2
187 OFTS-1-6	1D 406.4	2	400 OFSU-2-3	13 383.0	2
192 OFTS-1-7	14 386.9	2	404 OFSU-2-4	14 383.8	2
193 OFTS-1-7	1C 378.7	2	405 OFSU-2-4	1C 375.6	2
194 OFTS-1-7A	1C 417.8	2	409 OFSU-2-4	18 403.3	2
195 OFTS-1-8	14 403.7	2	410 OFSU-2-4	17 367.5	2
196 OFTS-1-8	1C 396.0	2	411 OFSU-2-4	13 394.5	2
197 OFTS-1-9	18 350.6	2	450 OFSU-2-3	18 392.9	2
198 OFTS-1-9	17 369.6	2			
227 OFTS-1-11	17 390.7	2			
231 OFTS-1-11	16 382.4	2			
232 OFTS-1-1	1D 376.4	2			
233 OFTS-1-11	15 386.5	2			
235 OFTS-1-12	18 384.6	2			
236 OFTS-1-12	17 407.7	2			
237 OFTS-1-12	13 375.2	2			
238 OFTS-1-12	14 363.9	2			
240 OFTS-1-12	16 399.8	2			
241 OFTS-1-12	1D 394.0	2			
242 OFTS-1-12	15 403.7	2			
243 OFTS-2-1	14 398.8	2			
244 OFTS-2-1	1C 382.2	2			
245 OFTS-2-1	16 402.8	2			
246 OFTS-2-1	1D 397.0	2			
247 OFTS-2-1	15 406.6	2			
248 OFTS-2-1	17 410.6	2			
249 OFTS-2-1A	14 404.5	2			
250 OFTS-2-1A	1C 395.9	2			
251 OFTS-2-1A	16 403.2	2			
252 OFTS-2-1A	1D 397.2	2			



TABLE 2 (continued)

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE
22 ONH-2-1	11 411.6	3	278 OFTS-2-9A	1C 385.1	3
23 ONH-2-1	1C 408.3	3	279 OFTS-2-9A	16 395.5	3
24 ONH-2-1	16 411.7	3	280 OFTS-2-9A	1D 389.7	3
25 ONH-2-1	1D 408.4	3	281 OFTS-2-9A	15 399.4	3
56 OFH-1-1	18 410.4	3	282 OFTS-2-9A	18 412.1	3
57 OFH-1-1	17 410.5	3	283 OFTS-2-9A	17 403.5	3
58 OFH-1-1	13 416.4	3	284 OFTS-2-9A	13 403.5	3
59 OFH-1-1	14 385.9	3	312 OFSU-1-1	18 367.6	3
60 OFH-1-1	1C 382.4	3	313 OFSU-1-1	17 334.2	3
61 OFH-1-1	16 386.1	3	314 OFSU-1-1	13 357.8	3
62 OFH-1-1	1D 382.5	3	315 OFSU-1-1	14 345.6	3
63 OFH-1-2	14 395.7	3	316 OFSU-1-1	1C 336.4	3
64 OFH-1-2	1C 392.3	3	317 OFSU-1-1	16 324.2	3
65 OFH-1-2	16 395.9	3	318 OFSU-1-1	1D 317.0	3
66 OFH-1-2	1D 392.4	3	319 OFSU-1-1	15 329.0	3
67 OFH-1-3	14 410.5	3	320 OFSU-1-1A	18 406.6	3
68 OFH-1-3	1C 407.1	3	321 OFSU-1-1A	17 402.5	3
69 OFH-1-3	16 410.6	3	322 OFSU-1-1A	13 397.9	3
70 OFH-1-3	1D 407.3	3	323 OFSU-1-1A	14 387.3	3
71 OFH-2-1	14 382.2	3	324 OFSU-1-1A	1C 379.2	3
72 OFH-2-1	1C 378.2	3	325 OFSU-1-1A	16 394.5	3
73 OFH-2-1	16 382.3	3	326 OFSU-1-1A	1D 388.6	3
74 OFH-2-1	1D 378.7	3	327 OFSU-1-1A	15 398.4	3
75 OFH-2-1	15 413.1	3	328 OFSU-1-2	18 376.3	3
76 OFH-2-1	18 406.9	3	329 OFSU-1-2	17 342.4	3
77 OFH-2-1	17 407.0	3	330 OFSU-1-	13 366.8	3
78 OFH-2-1	13 413.0	3	331 OFSU-1-2	14 355.0	3
158 OFTS-1-1A	17 413.8	3	332 OFSU-1-2	1C 346.1	3
159 OFTS-1-1A	14 407.3	3	333 OFSU-1-2	16 332.5	3
160 OFTS-1-1A	1C 398.8	3	334 OFSU-1-2	1D 325.5	3
161 OFTS-1-1A	16 406.0	3	335 OFSU-1-2	15 337.3	3
162 OFTS-1-1A	1D 400.3	3	336 OFSU-1-2A	17 411.5	3
163 OFTS-1-1A	15 409.8	3	337 OFSU-1-2A	13 407.2	3
167 OFTS-1-2A	1C 408.1	3	338 OFSU-1-2A	14 396.9	3
168 OFTS-1-2A	16 415.2	3	339 OFSU-1-2A	1C 389.0	3
169 OFTS-1-2A	1D 409.7	3	340 OFSU-1-2A	16 403.7	3
170 OFTS-1-2A	15 418.9	3	341 OFSU-1-2A	1D 398.0	3
177 OFTS-1-5A	17 413.5	3	342 OFSU-1-2A	15 407.5	3
178 OFTS-1-5A	13 417.6	3	362 OFSU-2-1	14 334.5	3
179 OFTS-1-5A	14 402.5	3	363 OFSU-2-1	1C 325.0	3
180 OFTS-1-5A	1C 394.7	3	364 OFSU-2-1	16 314.5	3
181 OFTS-1-5A	16 405.8	3	365 OFSU-2-1	1D 307.2	3
182 OFTS-1-5A	1D 400.1	3	366 OFSU-2-1	15 319.4	3
183 OFTS-1-5A	15 409.5	3	367 OFSU-2-1	18 357.3	3
188 OFTS-1-6A	14 411.5	3	368 OFSU-2-1	17 324.7	3
189 OFTS-1-6A	1C 403.9	3	369 OFSU-2-1	13 347.1	3
190 OFTS-1-6A	16 414.9	3	370 OFSU-2-1A	14 371.2	3
191 OFTS-1-6A	1D 409.3	3	371 OFSU-2-1A	1C 362.7	3
199 OFTS-1-9	13 340.1	3	372 OFSU-2-1A	16 379.1	3
200 OFTS-1-9	14 327.3	3	373 OFSU-2-1A	1D 373.0	3
201 OFTS-1-9	1C 317.6	3	374 OFSU-2-1A	15 383.2	3
202 OFTS-1-9	16 360.7	3	375 OFSU-2-1A	18 391.5	3
203 OFTS-1-9	1D 354.2	3	376 OFSU-2-1A	17 387.5	3
204 OFTS-1-9	15 365.1	3	377 OFSU-2-1A	13 382.4	3
205 OFTS-1-9A	18 415.9	3	385 OFSU-2-2	13 368.2	3
206 OFTS-1-9A	17 407.6	3			
207 OFTS-1-9A	13 407.4	3			
208 OFTS-1-9A	14 397.1	3			
209 OFTS-1-9A	1C 389.2	3			
210 OFTS-1-9A	16 399.7	3			
211 OFTS-1-9A	1D 393.9	3			
212 OFTS-1-9A	15 403.5	3			
213 OFTS-1-10	18 357.9	3			
256 OFTS-2-5	14 363.4	3			
257 OFTS-2-5	1C 354.7	3			
263 OFTS-2-5A	14 399.5	3			
264 OFTS-2-5A	1C 391.7	3			
265 OFTS-2-5A	16 402.7	3			
266 OFTS-2-5A	1D 397.0	3			
267 OFTS-2-5A	15 406.5	3			
268 OFTS-2-5A	17 410.6	3			
276 OFTS-2-9	1C 317.7	3			
277 OFTS-2-9A	14 393.1	3			



TABLE 2 (continued)

## ABNORMAL VOLTAGES

ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE	ID CASE NO.	BUS VOLTAGE	RESOLUTION CODE
79 OFH-2-2	14 404.8	3A	419 OFNHS-1-1B	18 408.2	3A
80 ONH-2-2	1C 401.4	3A	420 OFNHS-1-1B	17 413.3	3A
81 OFH-2-2	16 404.9	3A	421 OFNHS-1-1B	13 412.8	3A
82 OFH-2-2	1D 401.5	3A	422 OFNHS-1-1B	14 403.8	3A
214 OFTS-1-10	17 377.9	3A	423 OFNHS-1-1B	1C 396.0	3A
215 OFTS-1-10	13 347.7	3A	424 OFNHS-1-1B	16 412.2	3A
216 OFTS-1-10	14 335.2	3A	425 OFNHS-1-1B	1D 406.6	3A
217 OFTS-1-10	1C 325.7	3A	426 OFNHS-1-1B	15 413.6	3A
218 OFTS-1-10	16 369.2	3A	427 OFNHS-1-2A	18 407.6	3A
219 OFTS-1-10	1D 363.0	3A	428 OFNHS-1-2A	17 412.8	3A
220 OFTS-1-10	15 373.5	3A	429 OFNHS-1-2A	13 412.2	3A
221 OFTS-1-10A	14 406.0	3A	430 OFNHS-1-2A	14 403.2	3A
222 OFTS-1-10A	1C 398.3	3A	431 OFNHS-1-2A	1C 395.4	3A
223 OFTS-1-10A	16 408.7	3A	432 OFNHS-1-2A	16 411.7	3A
224 OFTS-1-10A	1D 403.1	3A	433 OFNHS-1-2A	1D 406.1	3A
225 OFTS-1-10A	15 412.5	3A	434 OFNHS-1-2A	15 413.0	3A
226 OFTS-1-11	18 369.3	3A	435 OFNHS-1-2B	18 417.7	3A
228 OFTS-1-11	13 359.5	3A	436 OFNHS-1-2B	14 413.4	3A
229 OFTS-1-11	14 347.5	3A	437 OFNHS-1-2B	1C 405.8	3A
230 OFTS-1-11	1C 338.4	3A	438 OFNHS-2-1A	18 403.0	3A
234 OFTS-1-11A	1C 412.2	3A	439 OFNHS-2-1A	17 408.2	3A
239 OFTS-1-12	1C 355.2	3A	440 OFNHS-2-1A	13 407.7	3A
285 OFTS-2-10	14 346.0	3A	441 OFNHS-2-1A	14 398.6	3A
286 OFTS-2-10	1C 336.8	3A	442 OFNHS-2-1A	1C 390.7	3A
292 OFTS-2-10	13 358.1	3A	443 OFNHS-2-1A	16 407.1	3A
293 OFTS-2-10A	14 413.6	3A	444 OFNHS-2-1A	1D 401.5	3A
294 OFTS-2-10A	1C 406.0	3A	445 OFNHS-2-1A	15 408.5	3A
295 OFTS-2-10A	1D 410.9	3A	446 OFNHS-2-1B	14 410.1	3A
344 OFSU-1-3	17 355.6	3A	447 OFNHS-2-1B	1C 402.5	3A
347 OFSU-1-3	1C 361.6	3A	448 OFNHS-2-1B	1D 412.9	3A
348 OFSU-1-3	16 346.2	3A	449 OFNHS-2-2A	1C 408.3	3A
349 OFSU-1-3	1D 339.5	3A			
350 OFSU-1-3	15 350.7	3A			
351 OFSU-1-3A	14 412.6	3A			
352 OFSU-1-3A	1C 405.1	3A			
353 OFSU-1-3A	1D 413.3	3A			
354 OFSU-1-4	18 398.6	3A			
355 OFSU-1-4	17 363.2	3A			
359 OFSU-1-4	16 354.0	3A			
360 OFSU-1-4	1D 347.5	3A			
361 OFSU-1-4	15 358.4	3A			
378 OFSU-2-2	14 356.4	3A			
379 OFSU-2-2	1C 347.6	3A			
380 OFSU-2-2	16 333.8	3A			
381 OFSU-2-2	1D 326.0	3A			
382 OFSU-2-2	15 338.6	3A			
384 OFSU-2-2	17 343.6	3A			
386 OFSU-2-2A	14 393.8	3A			
387 OFSU-2-2A	1C 385.8	3A			
388 OFSU-2-2A	16 400.7	3A			
389 OFSU-2-2A	1D 394.9	3A			
390 OFSU-2-2A	15 404.5	3A			
391 OFSU-2-2A	18 412.8	3A			
392 OFSU-2-2A	17 408.6	3A			
393 OFSU-2-2A	13 404.2	3A			
395 OFSU-2-3	1C 364.2	3A			
396 OFSU-2-3	16 348.5	3A			
397 OFSU-2-3	1D 341.8	3A			
398 OFSU-2-3	15 352.9	3A			
399 OFSU-2-3	17 357.8	3A			
401 OFSU-2-3A	14 410.6	3A			
402 OFSU-2-3A	1C 403.0	3A			
403 OFSU-2-3A	1D 411.3	3A			
406 OFSU-2-4	16 358.6	3A			
407 OFSU-2-4	1D 352.1	3A			
408 OFSU-2-4	15 362.8	3A			
412 OFNHS-1-1A	17 403.1	3A			
413 OFNHS-1-1A	13 402.6	3A			
414 OFNHS-1-1A	14 393.3	3A			
415 OFNHS-1-1A	1C 385.3	3A			
416 OFNHS-1-1A	16 402.0	3A			
417 OFNHS-1-1A	1D 396.3	3A			
418 OFNHS-1-1A	15 403.4	3A			





References:

1. Design analysis for the Addition of a Second Level of Undervoltage Protection. dated July 21, 1977
2. Amendments to prior design modifications on the undervoltage protection systems. R. E. Ginna Nuclear Plant, Unit #1, Docket No. 50-244. dated: July 24, 1978

Design Analysis



ATTACHMENT I

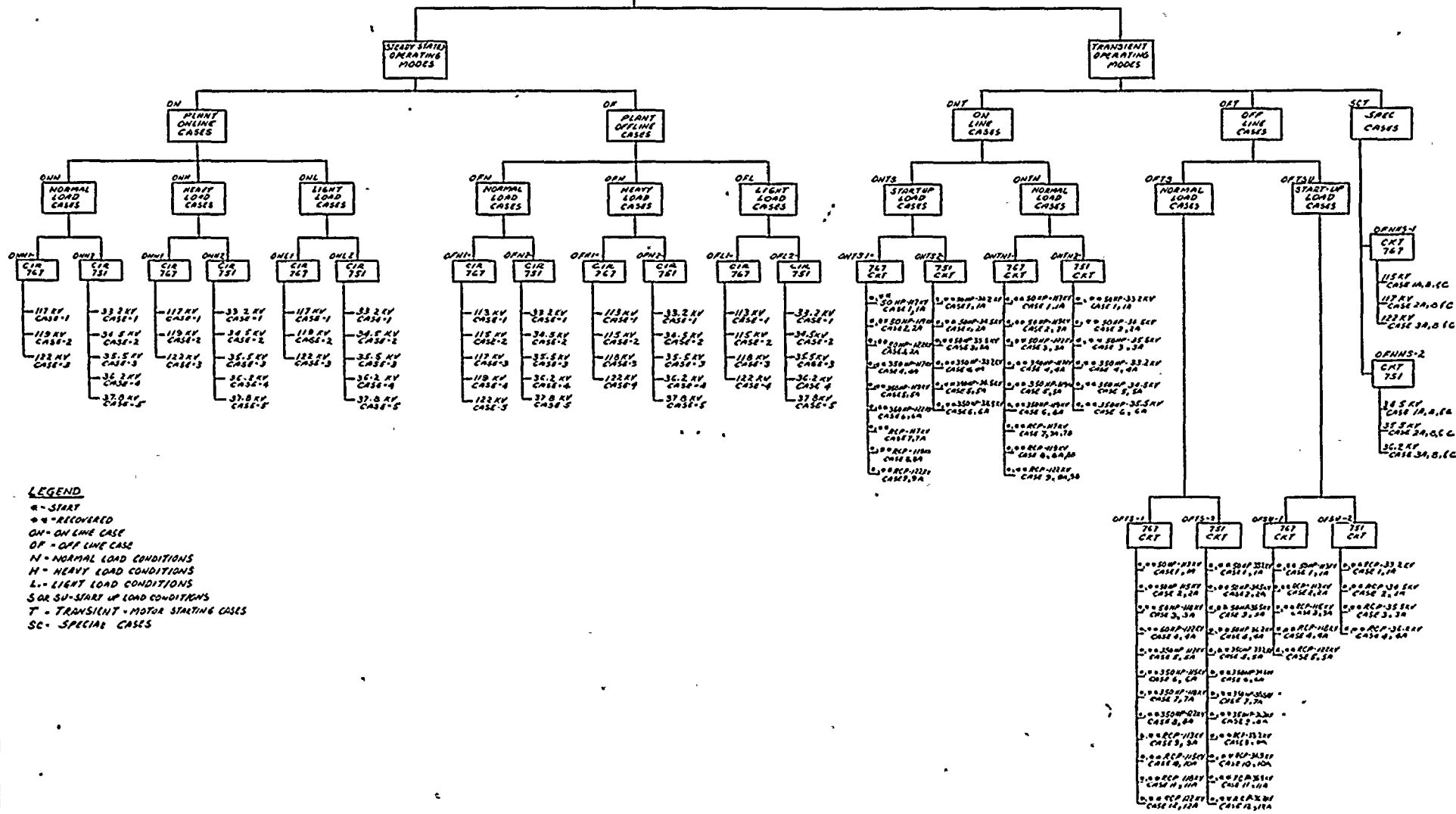
TO

DESIGN ANALYSIS  
ADEQUACY OF STATION ELECTRIC DISTRIBUTION  
SYSTEM VOLTAGES

DECEMBER 6, 1979



**GINNA  
LOAD FLOW  
ANALYSIS**

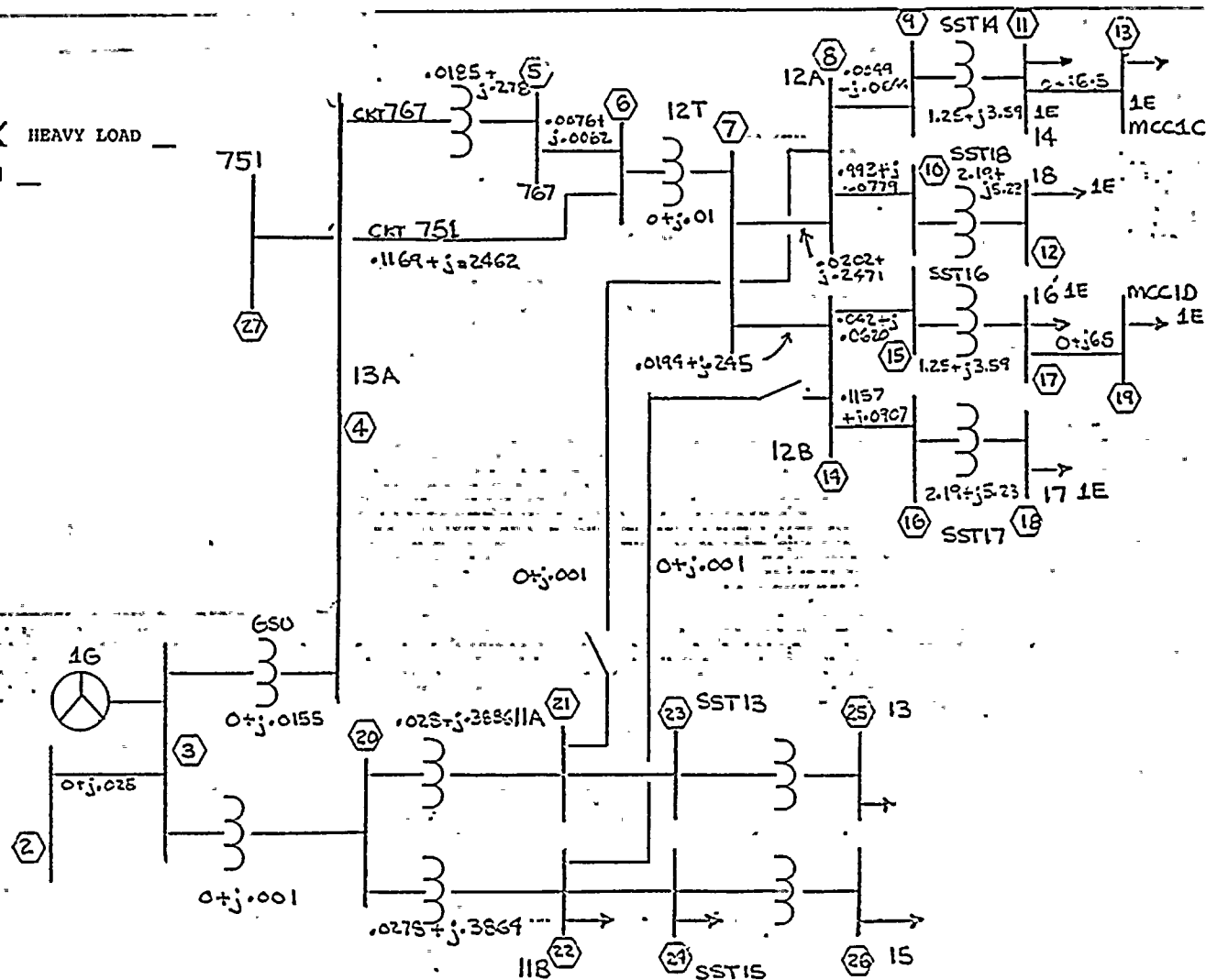


PREPARED BY  
GEORGE LINK

BASE CASE: ONN-1

OPERATING MODE: (1) ONLINE ☒ OFFLINE ☐  
 (2) SAFETY BUSES:  
     LIGHT LOAD ☐ NORMAL LOAD ☒ HEAVY LOAD ☐  
 (3) INSERVICE OFFSITE SOURCE:  
     CIRCUIT 767 ☒ CIRCUIT 751 ☐

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.1	.1
5	0	0	18	.6	.5
6	0	0	19	.3	.2
7	0	0	20	0	0
8	0	0	21	11.8	8.8
9	0	0	22	10.0	7.5
10	0	0	23	0	0
11	.3	.2	24	0	0
12	.3	.2	25	.6	.5
13	.3	.2	26	.5	.4
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E

GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS

CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN-1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9875	34.1	6	12T	34.5	1	0.9873	34.1
7	T12INT	4160	1	0.9871	4106.5	8	12A	4160	1	0.9853	4098.7
9	SST14	4160	1	0.9847	4096.5	10	SST18	4160	1	0.9848	4096.6
11	14	480	1	0.9619	461.7	12	18	48	1	0.9651	463.2
13	1C	480	1	0.9478	455.0	14	12B	4160	1	0.9848	4096.9
15	SST16	4160	1	0.9844	4095.3	16	SST17	4160	1	0.9836	4091.8
17	16	480	1	0.9678	464.6	18	17	480	1	0.9416	452.0
19	1D	480	1	0.9540	457.9	20	T11INT	4160	1	1.0342	4302.3
21	11A	4160	1	0.9930	4130.7	22	11B	4160	1	1.0001	4160.3
23	SST13	4160	1	0.9928	4130.1	24	SST15	4160	1	0.9999	4159.7
25	13	480	1	0.9513	456.6	26	15	480	1	0.9682	464.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 SINHA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN-1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	197.0	1	1.0259	197.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0052	34.7	6	12T	34.5	1	1.0050	34.7
7	T12INT	4160	1	1.0048	4180.0	8	12A	4160	1	1.0030	4172.4
9	SST14	4160	1	1.0024	4170.2	10	SST18	4160	1	1.0025	4170.3
11	14	480	1	0.9800	470.4	12	18	480	1	0.9832	471.9
13	1C	480	1	0.9663	463.8	14	12B	4160	1	1.0025	4170.5
15	SST13	4160	1	1.0022	4169.0	16	SST17	4160	1	1.0013	4165.6
17	16	480	1	0.9859	473.2	18	17	480	1	0.9602	460.9
19	1D	480	1	0.9723	466.7	20	T11INT	4160	1	1.0520	4376.3
21	11A	4160	1	1.0116	4208.1	22	11B	4160	1	1.0185	4237.0
23	SST13	4160	1	1.0114	4207.4	24	SST15	4160	1	1.0184	4236.4
25	13	480	1	0.9707	465.9	26	15	480	1	0.9873	473.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN- 1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0509	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0307	35.6	6	12T	34.5	1	1.0305	35.6
7	T12INT	4160	1	1.0303	4286.1	8	12A	4160	1	1.0285	4278.7
9	SST14	4160	1	1.0280	4276.6	10	SST18	4160	1	1.0281	4276.7
11	14	480	1	1.0062	483.0	12	18	480	1	1.0092	484.4
13	1C	480	1	0.9928	476.6	14	12B	4160	1	1.0281	4277.0
15	SST16	4160	1	1.0278	4275.4	16	SST17	4160	1	1.0270	4272.1
17	16	480	1	1.0119	485.7	18	17	480	1	0.9869	473.7
19	1D	480	1	0.9987	479.4	20	T11INT	4160	1	1.0777	4483.3
21	11A	4160	1	1.0384	4319.6	22	11B	4160	1	1.0451	4347.6
23	SST13	4160	1	1.0392	4319.0	24	SST15	4160	1	1.0450	4347.1
25	13	480	1	0.9907	479.4	26	15	480	1	1.0147	487.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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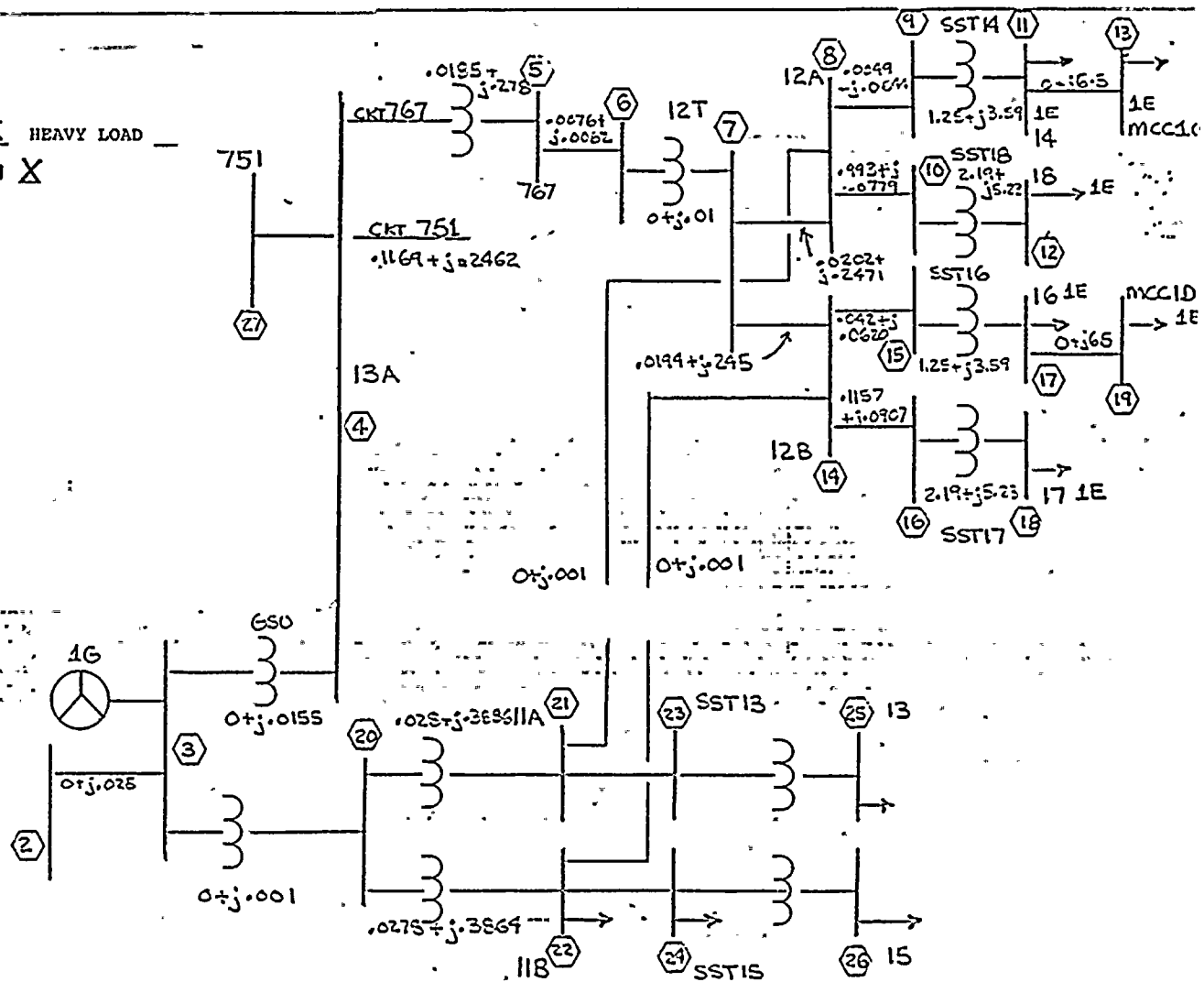
\* NONE \*

ACTIVITY?

BASE CASE: ONN-2

OPERATING MODE: (1) ONLINE X OFFLINE \_\_\_\_\_  
(2) SAFETY BUSES:  
LIGHT LOAD NORMAL LOAD X HEAVY LOAD \_\_\_\_\_  
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767 \_\_\_\_\_ CIRCUIT 751 X

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.1	.1
5	0	0	18	.6	.5
6	0	0	19	.3	.2
7	0	0	20	0	0
8	0	0	21	11.8	8.8
9	0	0	22	10.0	7.5
10	0	0	23	0	0
11	.3	.2	24	0	0
12	.3	.2	25	.6	.5
13	.3	.2	26	.5	.4
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN- 2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3 16		19.0	1	1.0509	20.0	4 13A		115	1	1.0610	122.0
6 12T		34.5	1	0.9557	33.0	7 T12INT		4160	1	0.9555	3975.0
8 12A		4160	1	0.9536	3967.0	9 SST14		4160	1	0.9530	3964.6
10 SST18		4160	1	0.9531	3964.8	11 14		480	1	0.9294	446.1
12 18		480	1	0.9327	447.7	13 1C		480	1	0.9148	439.1
14 12B		4160	1	0.9531	3965.0	15 SST16		4160	1	0.9527	3963.4
16 SST17		4160	1	0.9519	3959.8	17 16		480	1	0.9355	449.1
18 17		480	1	0.9083	436.0	19 1D		480	1	0.9212	442.2
20 T11INT		4160	1	1.0777	4483.3	21 11A		4160	1	1.0384	4319.6
22 11B		4160	1	1.0451	4347.6	23 SST13		4160	1	1.0382	4319.0
24 SST15		4160	1	1.0450	4347.1	25 13		480	1	0.9987	479.4
26 15		480	1	1.0147	487.1	27 751		34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0509	20.0	4	13A	115	1	1.0810	122.0
6	12T	34.5	1	0.9940	34.3	7	T12INT	4160	1	0.9938	4134.2
8	12A	4160	1	0.9920	4126.5	9	SST14	4160	1	0.9914	4124.3
10	SST18	4160	1	0.9915	4124.4	11	14	480	1	0.9687	465.0
12	18	480	1	0.9719	466.5	13	1C	480	1	0.9548	458.3
14	12B	4160	1	0.9915	4124.7	15	SST16	4160	1	0.9911	4123.1
16	SST17	4160	1	0.9903	4119.7	17	18	480	1	0.9747	467.8
18	17	480	1	0.9487	455.4	19	1D	480	1	0.9609	461.2
20	T11INT	4160	1	1.0777	4483.3	21	11A	4160	1	1.0384	4319.6
22	11B	4160	1	1.0451	4347.6	23	SST13	4160	1	1.0382	4319.0
24	SST15	4160	1	1.0450	4347.1	25	13	480	1	0.9987	479.4
26	15	480	1	1.0147	487.1	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN-2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0509	20.0	4	13A	115	1	1.0610	122.0
6	12T	34.5	1	1.0232	35.3	7	T12INT	4160	1	1.0230	4255.7
8	12A	4160	1	1.0212	4248.3	9	SST14	4160	1	1.0207	4246.1
10	SST18	4160	1	1.0207	4246.2	11	14	480	1	0.9987	479.4
12	18	480	1	1.0018	480.9	13	1C	480	1	0.9852	472.9
14	12B	4160	1	1.0208	4246.5	15	SST16	4160	1	1.0204	4245.0
16	SST17	4160	1	1.0196	4241.6	17	16	480	1	1.0045	482.1
18	17	480	1	0.9793	470.1	19	1D	480	1	0.9712	475.8
20	T11INT	4160	1	1.0777	4483.3	21	11A	4160	1	1.0384	4319.6
22	11B	4160	1	1.0451	4347.7	23	SST13	4160	1	1.0382	4318.9
24	SST15	4160	1	1.0450	4347.1	25	13	480	1	0.9987	479.4
26	15	480	1	1.0147	487.1	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN-- 2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0509	20.0	4	13A	115	1	1.0610	122.0
6	12T	34.5	1	1.0433	36.0	7	T12INT	4160	1	1.0431	4339.5
8	12A	4160	1	1.0414	4332.2	9	SST14	4160	1	1.0409	4330.0
10	SST18	4160	1	1.0409	4330.2	11	14	480	1	1.0194	489.3
12	18	480	1	1.0223	490.7	13	1C	480	1	1.0062	483.0
14	12B	4160	1	1.0410	4330.4	15	SST16	4160	1	1.0406	4328.9
16	SST17	4160	1	1.0398	4325.6	17	16	480	1	1.0250	492.0
18	17	480	1	1.0003	480.2	19	1D	480	1	1.0120	485.7
20	T11INT	4160	1	1.0777	4483.3	21	11A	4160	1	1.0384	4319.6
22	11B	4160	1	1.0451	4347.6	23	SST13	4160	1	1.0382	4319.0
24	SST15	4160	1	1.0450	4347.1	25	13	480	1	0.9987	479.4
26	15	480	1	1.0147	487.1	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONN (ONLINE NORMAL LOADS)

TABLE: ONN- 2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0509	20.0	4	13A	115	1	1.0610	122.0
6	12T	34.5	1	1.0906	37.6	7	T12INT	4160	1	1.0904	4536.1
8	12A	4160	1	1.0887	4529.2	9	SST14	4160	1	1.0883	4527.2
10	SST18	4160	1	1.0883	4527.3	11	14	480	1	1.0678	512.5
12	18	480	1	1.0706	513.9	13	1C	480	1	1.0552	506.5
14	12B	4160	1	1.0883	4527.5	15	SST16	4160	1	1.0880	4526.1
16	SST17	4160	1	1.0873	4523.0	17	16	480	1	1.0731	515.1
18	17	480	1	1.0497	503.8	19	1D	480	1	1.0607	509.1
20	T11INT	4160	1	1.0777	4483.3	21	11A	4160	1	1.0384	4319.6
22	11B	4160	1	1.0451	4347.6	23	SST13	4160	1	1.0382	4319.0
24	SST15	4160	1	1.0450	4347.1	25	13	480	1	0.9987	479.4
26	15	480	1	1.0147	487.1	27	751	34.5	1	1.0960	37.8

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

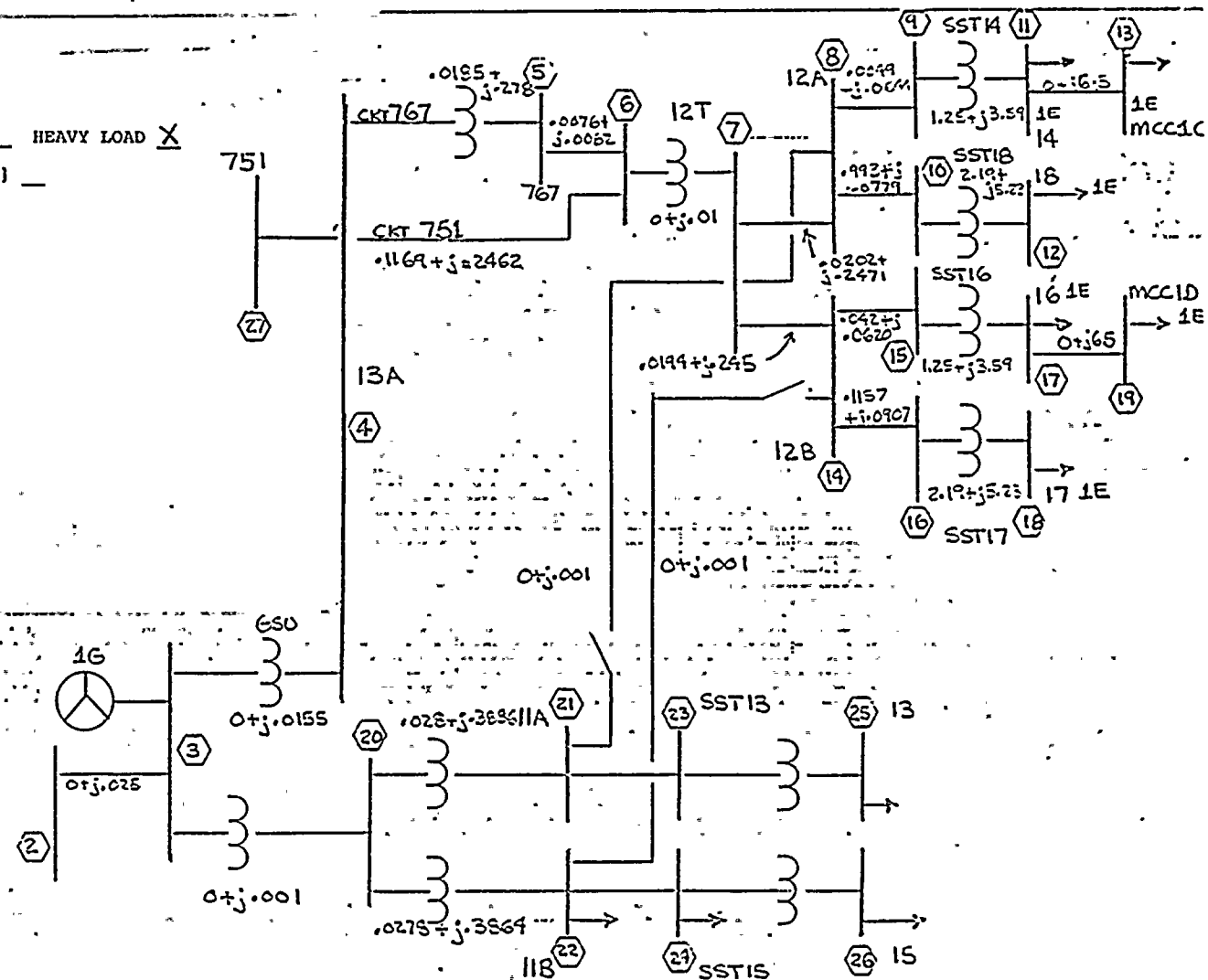
ACTIVITY?



BASE CASE: GINNAI

OPERATING MODE: (1) ONLINE X OFFLINE \_\_\_\_\_  
(2) SAFETY BUSES: \_\_\_\_\_  
LIGHT LOAD \_\_\_\_\_ NORMAL LOAD \_\_\_\_\_  
(3) INSERVICE OFFSITE SOURCE: \_\_\_\_\_  
CIRCUIT 767 X CIRCUIT 751 \_\_\_\_\_

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	1.6	1.2
5	0	0	18	.5	.4
6	0	0	19	.1	.1
7	0	0	20	0	0
8	0	0	21	12	9
9	0	0	22	12	9
10	0	0	23	0	0
11	1.6	1.2	24	0	0
12	.5	.4	25	.4	.3
13	.1	.1	26	.4	.3
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH- 1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0083	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9803	33.8	6	12T	34.5	1	0.9797	33.8
7	T12INT	4160	1	0.9793	4073.9	8	12A	4160	1	0.9740	4051.7
9	SST14	4160	1	0.9721	4044.1	10	SST18	4160	1	0.9731	4049.2
11	14	480	1	0.8950	429.6	12	18	480	1	0.9402	451.3
13	1C	480	1	0.8883	426.4	14	12B	4160	1	0.9740	4052.0
15	SST16	4160	1	0.9723	4044.7	16	SST17	4160	1	0.9730	4047.9
17	16	480	1	0.8951	429.7	18	17	480	1	0.9401	451.2
19	1D	480	1	0.8885	426.5	20	T11INT	4160	1	1.0340	4301.4
21	11A	4160	1	0.9932	4131.8	22	11B	4160	1	0.9935	4132.9
23	SST13	4160	1	0.9931	4131.5	24	SST15	4160	1	0.9934	4132.5
25	13	480	1	0.9712	466.2	26	15	480	1	0.9714	466.3

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH-- 1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0257	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	0.9981	34.4	6	12T	34.5	1	0.9975	34.4
7	T12INT	4160	1	0.9972	4148.2	8	12A	4160	1	0.9920	4126.5
9	SST14	4160	1	0.9902	4119.1	10	SST18	4160	1	0.9911	4123.1
11	14	480	1	0.9147	439.1	12	18	480	1	0.9588	460.2
13	1C	480	1	0.9082	436.0	14	12B	4160	1	0.9920	4126.8
15	SST16	4160	1	0.9903	4119.7	16	SST17	4160	1	0.9911	4122.8
17	16	480	1	0.9149	439.1	18	17	480	1	0.9587	460.2
19	1D	480	1	0.9084	436.0	20	T11INT	4160	1	1.0518	4375.4
21	11A	4160	1	1.0118	4209.1	22	11B	4160	1	1.0121	4210.1
23	SST13	4160	1	1.0117	4208.8	24	SST15	4160	1	1.0120	4209.7
25	13	480	1	0.9902	475.3	26	15	480	1	0.9904	475.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH- 1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	10	19.0	1	1.0507	20.0	4	13A	115	1	1.0310	122.0
5	767	34.5	1	1.0239	35.3	6	12T	34.5	1	1.0233	35.3
7	T12INT	4160	1	1.0229	4255.4	8	12A	4160	1	1.0179	4234.4
9	SST14	4160	1	1.0162	4227.3	10	SST18	4160	1	1.0171	4231.1
11	14	480	1	0.9430	452.7	12	18	480	1	0.9857	473.1
13	1C	480	1	0.9368	449.6	14	12B	4160	1	1.0180	4234.7
15	SST16	4160	1	1.0163	4227.8	16	SST17	4160	1	1.0170	4230.8
17	16	480	1	0.9432	452.7	18	17	480	1	0.9856	473.1
19	1D	480	1	0.9369	449.7	20	T11INT	4160	1	1.0775	4482.4
21	11A	4160	1	1.0386	4320.6	22	11B	4160	1	1.0388	4321.6
23	SST13	4160	1	1.0385	4320.2	24	SST15	4160	1	1.0387	4321.2
25	13	480	1	1.0176	488.4	26	15	480	1	1.0178	488.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

BASE CASE: GINNA.1

OPERATING MODE: (1) ONLINE ☒ OFFLINE

(2) SAFETY BUSES:

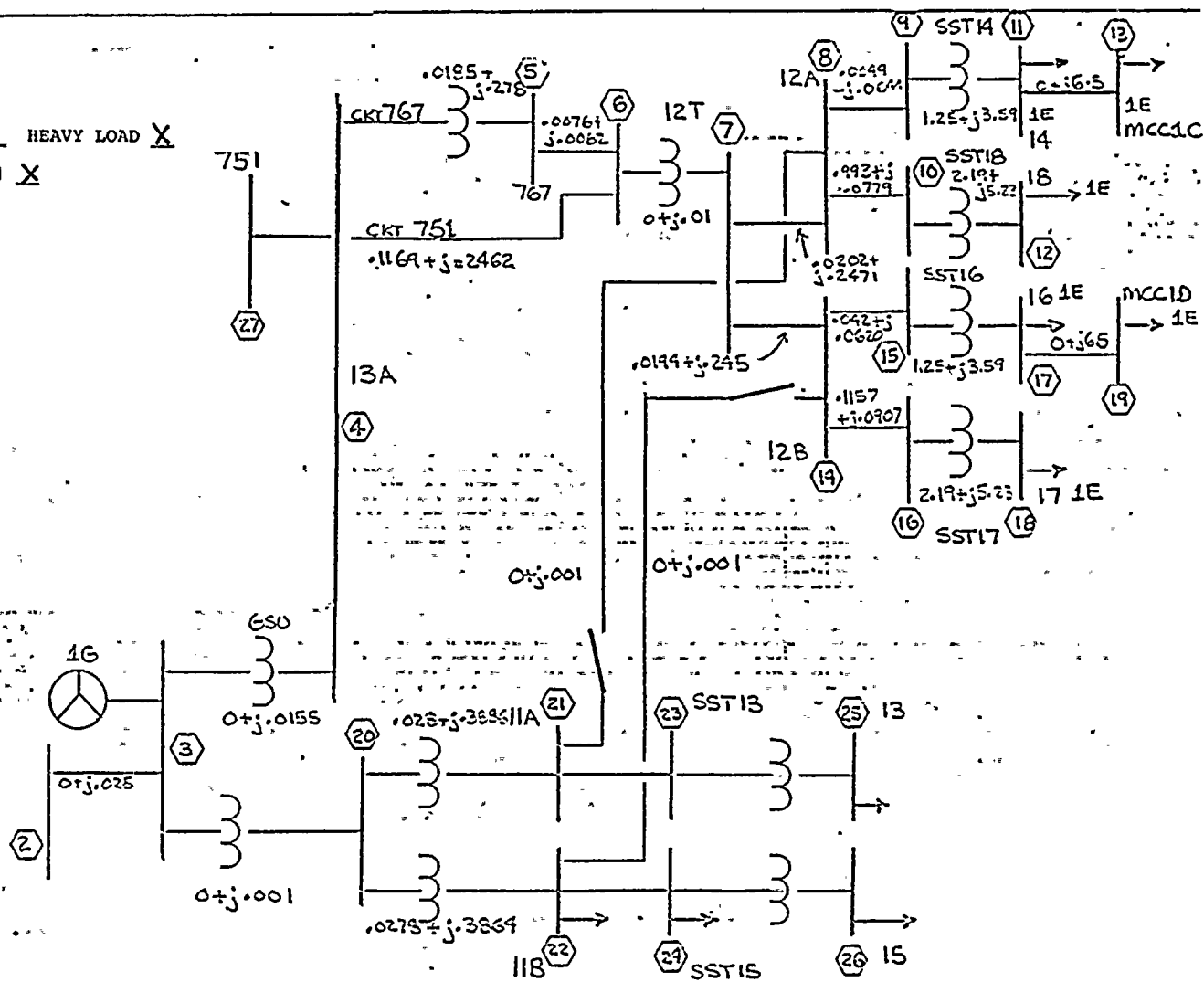
	LIGHT LOAD	NORMAL LOAD
1. $\frac{1}{2}$ inch	1.0	1.0
2. $\frac{3}{4}$ inch	1.0	1.0
3. 1 inch	1.0	1.0
4. 1 1/4 inch	1.0	1.0
5. 1 1/2 inch	1.0	1.0
6. 1 3/4 inch	1.0	1.0
7. 2 inch	1.0	1.0
8. 2 1/4 inch	1.0	1.0
9. 2 1/2 inch	1.0	1.0
10. 2 3/4 inch	1.0	1.0
11. 3 inch	1.0	1.0
12. 3 1/4 inch	1.0	1.0
13. 3 1/2 inch	1.0	1.0
14. 3 3/4 inch	1.0	1.0
15. 4 inch	1.0	1.0
16. 4 1/4 inch	1.0	1.0
17. 4 1/2 inch	1.0	1.0
18. 4 3/4 inch	1.0	1.0
19. 5 inch	1.0	1.0
20. 5 1/4 inch	1.0	1.0
21. 5 1/2 inch	1.0	1.0
22. 5 3/4 inch	1.0	1.0
23. 6 inch	1.0	1.0
24. 6 1/4 inch	1.0	1.0
25. 6 1/2 inch	1.0	1.0
26. 6 3/4 inch	1.0	1.0
27. 7 inch	1.0	1.0
28. 7 1/4 inch	1.0	1.0
29. 7 1/2 inch	1.0	1.0
30. 7 3/4 inch	1.0	1.0
31. 8 inch	1.0	1.0
32. 8 1/4 inch	1.0	1.0
33. 8 1/2 inch	1.0	1.0
34. 8 3/4 inch	1.0	1.0
35. 9 inch	1.0	1.0
36. 9 1/4 inch	1.0	1.0
37. 9 1/2 inch	1.0	1.0
38. 9 3/4 inch	1.0	1.0
39. 10 inch	1.0	1.0
40. 10 1/4 inch	1.0	1.0
41. 10 1/2 inch	1.0	1.0
42. 10 3/4 inch	1.0	1.0
43. 11 inch	1.0	1.0
44. 11 1/4 inch	1.0	1.0
45. 11 1/2 inch	1.0	1.0
46. 11 3/4 inch	1.0	1.0
47. 12 inch	1.0	1.0
48. 12 1/4 inch	1.0	1.0
49. 12 1/2 inch	1.0	1.0
50. 12 3/4 inch	1.0	1.0
51. 13 inch	1.0	1.0
52. 13 1/4 inch	1.0	1.0
53. 13 1/2 inch	1.0	1.0
54. 13 3/4 inch	1.0	1.0
55. 14 inch	1.0	1.0
56. 14 1/4 inch	1.0	1.0
57. 14 1/2 inch	1.0	1.0
58. 14 3/4 inch	1.0	1.0
59. 15 inch	1.0	1.0
60. 15 1/4 inch	1.0	1.0
61. 15 1/2 inch	1.0	1.0
62. 15 3/4 inch	1.0	1.0
63. 16 inch	1.0	1.0
64. 16 1/4 inch	1.0	1.0
65. 16 1/2 inch	1.0	1.0
66. 16 3/4 inch	1.0	1.0
67. 17 inch	1.0	1.0
68. 17 1/4 inch	1.0	1.0
69. 17 1/2 inch	1.0	1.0
70. 17 3/4 inch	1.0	1.0
71. 18 inch	1.0	1.0
72. 18 1/4 inch	1.0	1.0
73. 18 1/2 inch	1.0	1.0
74. 18 3/4 inch	1.0	1.0
75. 19 inch	1.0	1.0
76. 19 1/4 inch	1.0	1.0
77. 19 1/2 inch	1.0	1.0
78. 19 3/4 inch	1.0	1.0
79. 20 inch	1.0	1.0
80. 20 1/4 inch	1.0	1.0
81. 20 1/2 inch	1.0	1.0
82. 20 3/4 inch	1.0	1.0
83. 21 inch	1.0	1.0
84. 21 1/4 inch	1.0	1.0
85. 21 1/2 inch	1.0	1.0
86. 21 3/4 inch	1.0	1.0
87. 22 inch	1.0	1.0
88. 22 1/4 inch	1.0	1.0
89. 22 1/2 inch	1.0	1.0
90. 22 3/4 inch	1.0	1.0
91. 23 inch	1.0	1.0
92. 23 1/4 inch	1.0	1.0
93. 23 1/2 inch	1.0	1.0
94. 23 3/4 inch	1.0	1.0
95. 24 inch	1.0	1.0
96. 24 1/4 inch	1.0	1.0
97. 24 1/2 inch	1.0	1.0
98. 24 3/4 inch	1.0	1.0
99. 25 inch	1.0	1.0
100. 25 1/4 inch	1.0	

HEAVY LOAD X

(3) INSERVICE OFFSITE SOURCE:

CIRCUIT 767                      CIRCUIT 751

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	1.6	1.2
5	0	0	18	.5	.4
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	12	9
9	0	0	22	12	9
10	0	0	23	0	0
11	1.6	1.2	24	0	0
12	.5	.4	25	.4	.3
13	.2	.1	26	.4	.3
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH- 2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0083	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9461	32.6	7	T12INT	4160	1	0.9457	3934.0
8	12A	4160	1	0.9401	3910.8	9	SST14	4160	1	0.9382	3902.9
10	SST18	4160	1	0.9392	3907.2	11	14	480	1	0.8575	411.6
12	18	480	1	0.9050	434.4	13	1C	480	1	0.8506	408.3
14	12B	4160	1	0.9402	3911.1	15	SST16	4160	1	0.9383	3903.4
16	SST17	4160	1	0.9391	3906.8	17	16	480	1	0.8577	411.7
18	17	480	1	0.9049	434.3	19	1D	480	1	0.8507	408.4
20	T11INT	4160	1	1.0340	4301.4	21	11A	4160	1	0.9932	4131.8
22	11B	4160	1	0.9935	4132.9	23	SST13	4160	1	0.9931	4131.5
24	SST15	4160	1	0.9934	4132.5	25	13	480	1	0.9712	466.2
26	15	480	1	0.9714	466.3	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0083	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9849	34.0	7	T12INT	4160	1	0.9845	4095.4
8	12A	4160	1	0.9792	4073.4	9	SST14	4160	1	0.9774	4065.9
10	SST18	4160	1	0.9783	4069.9	11	14	480	1	0.9007	432.3
12	18	480	1	0.9456	453.9	13	1C	480	1	0.8941	429.2
14	12B	4160	1	0.9792	4073.7	15	SST16	4160	1	0.9775	4066.4
16	SST17	4160	1	0.9783	4069.6	17	16	480	1	0.9008	432.4
18	17	480	1	0.9455	453.8	19	1D	480	1	0.8943	429.2
20	T11INT	4160	1	1.0340	4301.4	21	11A	4160	1	0.9932	4131.8
22	11B	4160	1	0.9935	4132.9	23	SST13	4160	1	0.9931	4131.5
24	SST15	4160	1	0.9934	4132.5	25	13	480	1	0.9712	463.2
26	15	480	1	0.9714	466.3	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH- 2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0083	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0144	35.0	7	T12INT	4160	1	1.0140	4218.4
8	12A	4160	1	1.0089	4197.2	9	SST14	4160	1	1.0072	4189.9
10	SST18	4160	1	1.0081	4193.8	11	14	480	1	0.9333	448.0
12	18	480	1	0.9764	468.7	13	1C	480	1	0.9269	444.9
14	12B	4160	1	1.0090	4197.4	15	SST16	4160	1	1.0073	4190.4
16	SST17	4160	1	1.0081	4193.5	17	16	480	1	0.9334	448.0
18	17	480	1	0.9763	468.6	19	1D	480	1	0.9271	445.0
20	T11INT	4160	1	1.0340	4301.4	21	11A	4160	1	0.9932	4131.8
22	11B	4160	1	0.9935	4132.9	23	SST13	4160	1	0.9931	4131.5
24	SST15	4160	1	0.9934	4132.5	25	13	480	1	0.9712	466.2
26	15	480	1	0.9714	466.3	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

1



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH- 2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0083	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0348	35.7	7	T12INT	4160	1	1.0344	4303.1
8	12A	4160	1	1.0294	4282.4	9	SST14	4160	1	1.0277	4275.3
10	SST18	4160	1	1.0286	4279.1	11	14	480	1	0.9556	458.7
12	18	480	1	0.9976	478.8	13	1C	480	1	0.9494	455.7
14	12B	4160	1	1.0295	4282.6	15	SST16	4160	1	1.0278	4275.8
16	SST17	4160	1	1.0286	4278.8	17	16	480	1	0.9557	458.7
18	17	480	1	0.9975	478.8	19	1D	480	1	0.9495	455.8
20	T11INT	4160	1	1.0340	4301.4	21	11A	4160	1	0.9932	4131.8
22	11B	4160	1	0.9935	4132.9	23	SST13	4160	1	0.9931	4131.5
24	SST15	4160	1	0.9934	4132.5	25	13	480	1	0.9712	466.2
26	15	480	1	0.9714	466.3	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONH (ONLINE HEAVY LOADS)

TABLE: ONH- 2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0083	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0825	37.3	7	T12INT	4160	1	1.0822	4501.8
8	12A	4160	1	1.0775	4482.2	9	SST14	4160	1	1.0759	4475.5
10	SST18	4160	1	1.0767	4479.1	11	14	480	1	1.0075	483.6
12	18	480	1	1.0471	502.6	13	1C	480	1	1.0017	480.8
14	12B	4160	1	1.0775	4482.5	15	SST16	4160	1	1.0760	4476.0
16	SST17	4160	1	1.0766	4478.8	17	16	480	1	1.0077	483.7
18	17	480	1	1.0471	502.6	19	1D	480	1	1.0018	480.9
20	T11INT	4160	1	1.0340	4301.4	21	11A	4160	1	0.9932	4131.8
22	11B	4160	1	0.9935	4132.9	23	SST13	4160	1	0.9931	4131.5
24	SST15	4160	1	0.9934	4132.5	25	13	480	1	0.9712	463.2
26	15	480	1	0.9714	466.3	27	751	34.5	1	1.0960	37.8

BUSES WITH VOLTAGE LESS THAN 0.0000:

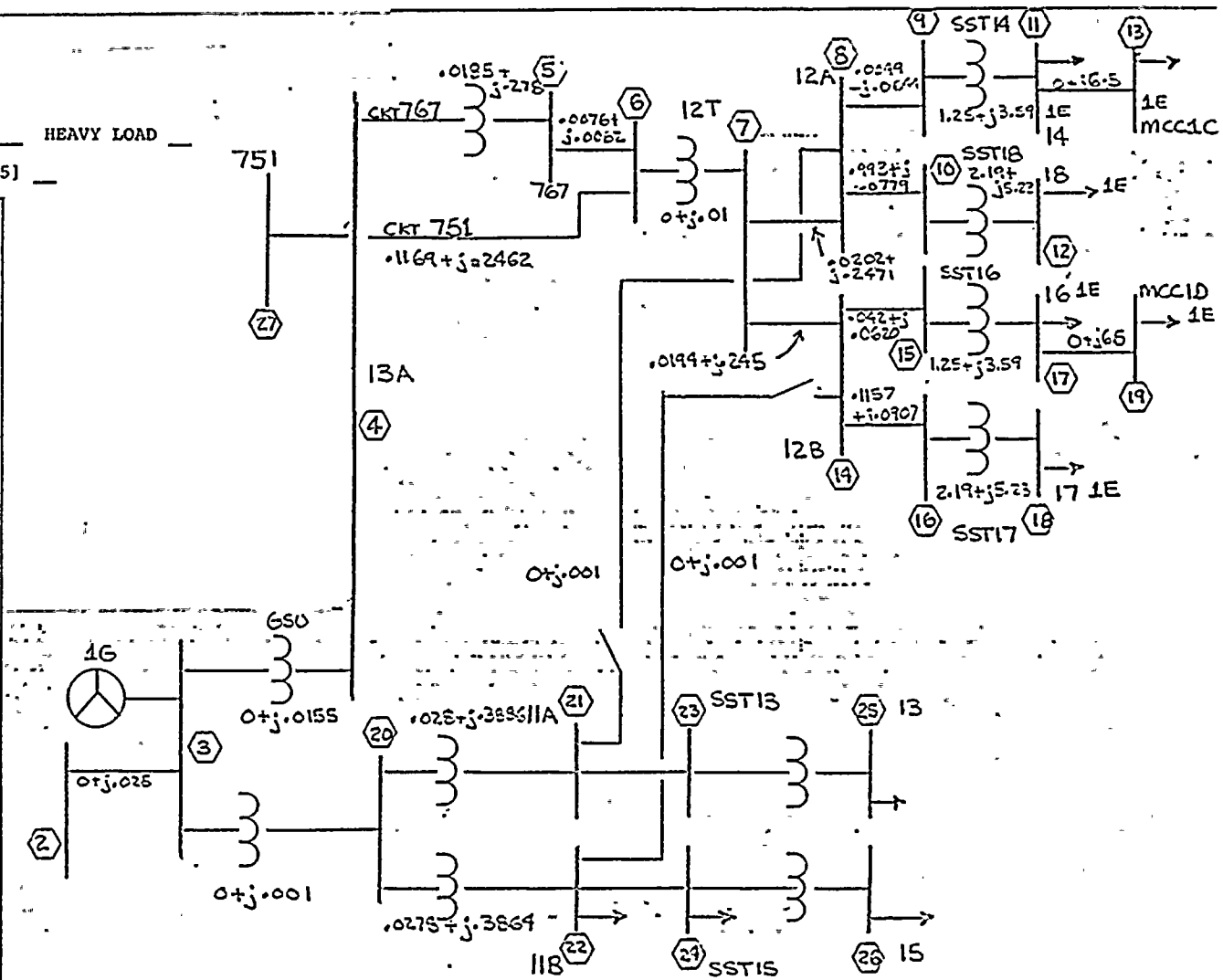
BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

BASE CASE: LIGHT LOAD ONLINE

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.3	.2
5	0	0	18	.3	.2
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	10	7.5
9	0	0	22	10	7.5
10	0	0	23	0	0
11	.3	.2	24	0	0
12	.3	.2	25	.4	.3
13	.2	.1	26	.4	.3
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS)

TABLE: ONL-1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0088	197.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9886	34.1	6	12T	34.5	1	0.9884	34.1
7	T12INT	4160	1	0.9883	4111.2	8	12A	4160	1	0.9865	4103.7
9	SST14	4160	1	0.9860	4101.7	10	SST18	4160	1	0.9859	4101.5
11	14	480	1	0.9651	463.3	12	18	480	1	0.9656	463.5
13	1C	480	1	0.9548	458.3	14	12D	4160	1	0.9868	4105.1
15	SST16	4160	1	0.9864	4103.5	16	SST17	4160	1	0.9863	4102.9
17	16	480	1	0.9691	465.2	18	17	480	1	0.9686	464.9
19	1D	480	1	0.9623	461.9	20	T11INT	4160	1	1.0345	4303.5
21	11A	4160	1	1.0007	4162.9	22	11B	4160	1	1.0009	4163.7
23	SST13	4160	1	1.0006	4162.5	24	SST15	4160	1	1.0008	4163.3
25	13	480	1	0.9780	469.4	26	15	480	1	0.9782	469.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS)

TABLE: ONL-1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	IG	19.0	1	1.0261	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0062	34.7	6	12T	34.5	1	1.0060	34.7
7	T12INT	4160	1	1.0059	4184.6	8	12A	4160	1	1.0041	4177.3
9	SST14	4160	1	1.0037	4175.3	10	SST18	4160	1	1.0036	4175.1
11	14	480	1	0.9832	471.9	12	18	480	1	0.9837	472.2
13	1C	480	1	0.9731	467.1	14	12B	4160	1	1.0045	4178.7
15	SST16	4160	1	1.0041	4177.0	16	SST17	4160	1	1.0040	4176.4
17	16	480	1	0.9872	473.8	18	17	480	1	0.9866	473.6
19	1D	480	1	0.9804	470.6	20	T11INT	4160	1	1.0523	4377.6
21	11A	4160	1	1.0191	4239.6	22	11B	4160	1	1.0193	4240.4
23	SST13	4160	1	1.0190	4239.2	24	SST15	4160	1	1.0192	4240.0
25	13	480	1	0.9969	478.5	26	15	480	1	0.9971	478.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS)

TABLE: ONL-1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3 16		19.0	1	1.0512	207.0	4 13A		115	1	1.0610	122.0
5 767		34.5	1	1.0317	35.6	6 12T		34.5	1	1.0315	35.6
7 T12INT		4160	1	1.0314	4290.5	8 12A		4160	1	1.0297	4283.4
9 SST14		4160	1	1.0292	4281.5	10 SST18		4160	1	1.0292	4281.3
11 14		480	1	1.0093	484.4	12 18		480	1	1.0097	484.7
13 1C		480	1	0.9994	479.7	14 12B		4160	1	1.0300	4284.8
15 SST16		4160	1	1.0296	4283.2	16 SST17		4160	1	1.0295	4282.6
17 16		480	1	1.0131	486.3	18 17		480	1	1.0126	486.0
19 1D		480	1	1.0066	483.2	20 T111INT		4160	1	1.0780	4484.5
21 11A		4160	1	1.0457	4350.1	22 11B		4160	1	1.0459	4350.9
23 SST13		4160	1	1.0456	4349.8	24 SST15		4160	1	1.0458	4350.5
25 13		480	1	1.0240	491.5	26 15		480	1	1.0242	491.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\*NONE\*

ACTIVITY?

ONL-2

BASE CASE: LIGHT LOAD ONLINE

OPERATING MODE: (1) ONLINE X OFFLINE

(2) SAFETY BUSES:

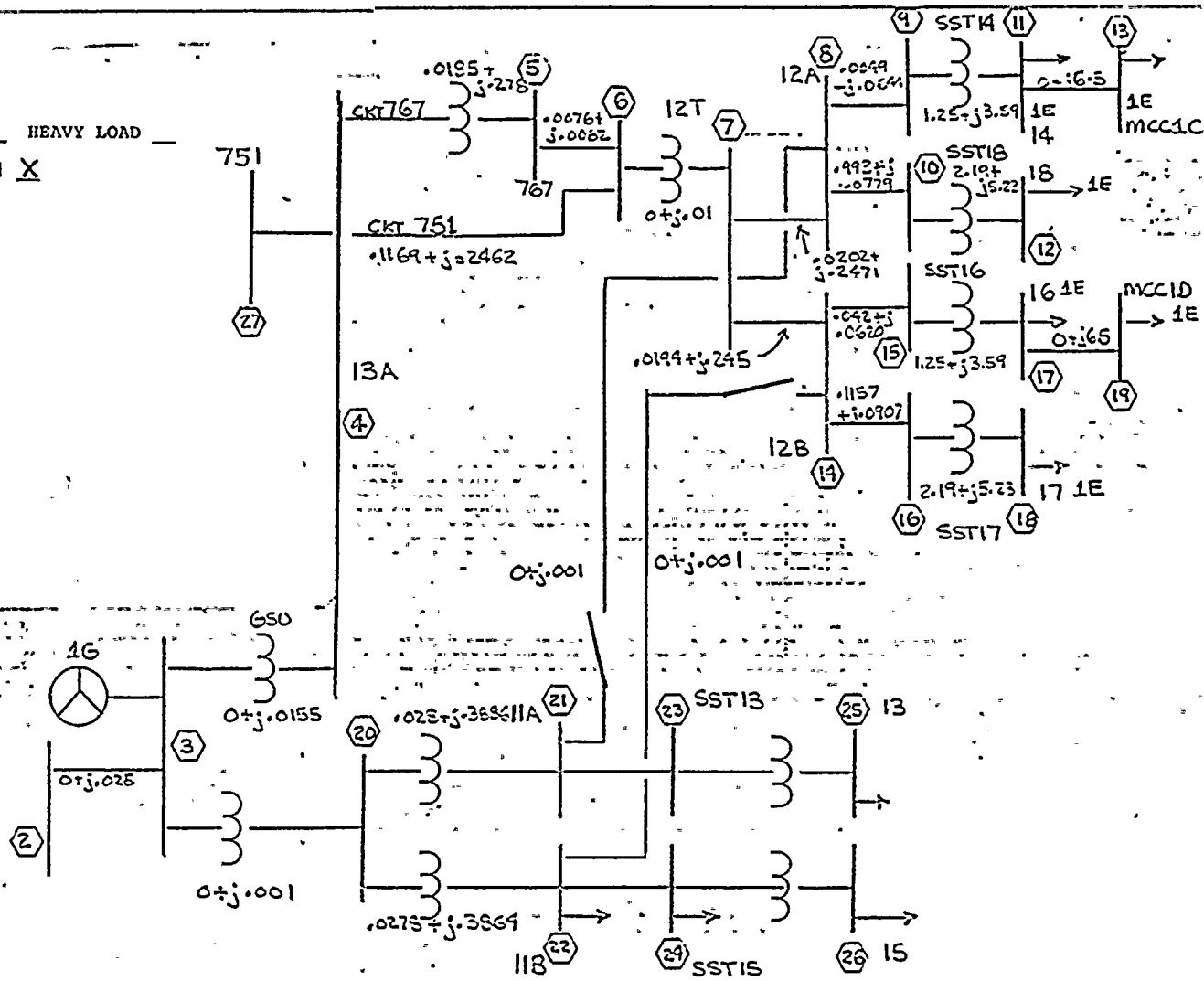
LIGHT LOAD X NORMAL LOAD

## HEAVY LOAD

(3) INSERVICE OFFSITE SOURCE:

CIRCUIT 767      CIRCUIT 751 X

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.3	.2
5	0	0	18	.3	.2
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	10	7.5
9	0	0	22	10	7.5
10	0	0	23	0	0
11	.3	.2	24	0	0
12	.3	.2	25	.4	.3
13	.2	.1	26	.4	.3
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS) TABLE: ONL-2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0088	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9570	33.0	7	T12INT	4160	1	0.9569	3980.7
8	12A	4160	1	0.9550	3973.0	9	SST14	4160	1	0.9545	3970.8
10	SST18	4160	1	0.9545	3970.7	11	14	480	1	0.9329	447.8
12	18	480	1	0.9335	448.1	13	1C	480	1	0.9222	442.7
14	12B	4160	1	0.9554	3974.4	15	SST16	4160	1	0.9550	3972.7
16	SST17	4160	1	0.9548	3972.1	17	16	480	1	0.9371	449.8
18	17	480	1	0.9366	449.6	19	1D	480	1	0.9300	446.4
20	T11INT	4160	1	1.0345	4303.5	21	11A	4160	1	1.0007	4162.9
22	11B	4160	1	1.0009	4163.8	23	SST13	4160	1	1.0006	4162.5
24	SST15	4160	1	1.0008	4163.3	25	13	480	1	0.9780	469.5
26	15	480	1	0.9782	469.5	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS)

TABLE: ONL- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0088	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9952	34.3	7	T12INT	4160	1	0.9951	4139.6
8	12A	4160	1	0.9933	4132.2	9	SST14	4160	1	0.9928	4130.2
10	SST18	4160	1	0.9928	4130.1	11	14	480	1	0.9721	466.6
12	18	480	1	0.9726	466.9	13	1C	480	1	0.9619	461.7
14	12B	4160	1	0.9937	4133.7	15	SST16	4160	1	0.9933	4132.0
16	SST17	4160	1	0.9931	4131.4	17	16	480	1	0.9761	468.5
18	17	480	1	0.9756	468.3	19	1D	480	1	0.9693	465.3
20	T11INT	4160	1	1.0345	4303.5	21	11A	4160	1	1.0007	4162.9
22	11B	4160	1	1.0009	4163.7	23	SST13	4160	1	1.0006	4162.5
24	SST15	4160	1	1.0008	4163.3	25	13	480	1	0.9780	469.4
26	15	480	1	0.9782	469.5	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS)

TABLE: ONL- 2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0088	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0244	35.3	7	T12INT	4160	1	1.0243	4260.9
8	12A	4160	1	1.0225	4253.7	9	SST14	4160	1	1.0221	4251.7
10	SST18	4160	1	1.0220	4251.6	11	14	480	1	1.0020	480.9
12	18	480	1	1.0024	481.2	13	1C	480	1	0.9921	473.2
14	12B	4160	1	1.0229	4255.1	15	SST16	4160	1	1.0225	4253.5
13	SST17	4160	1	1.0223	4252.9	17	16	480	1	1.0059	482.8
18	17	480	1	1.0053	482.6	19	1D	480	1	0.9993	479.6
20	T11INT	4160	1	1.0345	4303.5	21	11A	4160	1	1.0007	4162.9
22	11B	4160	1	1.0009	4163.8	23	SST13	4160	1	1.0006	4162.5
24	SST15	4160	1	1.0008	4163.3	25	13	480	1	0.9780	469.5
26	15	480	1	0.9782	469.5	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS)

TABLE: ONL- 2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0088	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0445	36.0	7	T12INT	4160	1	1.0443	4344.5
8	12A	4160	1	1.0427	4337.5	9	SST14	4160	1	1.0422	4335.5
10	SST18	4160	1	1.0422	4335.4	11	14	480	1	1.0225	490.8
12	18	480	1	1.0230	491.0	13	1C	480	1	1.0128	486.2
14	12B	4160	1	1.0430	4338.8	15	SST16	4160	1	1.0426	4337.2
16	SST17	4160	1	1.0425	4336.7	17	16	480	1	1.0263	492.6
18	17	480	1	1.0258	492.4	19	1D	480	1	1.0199	489.5
20	T11INT	4160	1	1.0345	4303.5	21	11A	4160	1	1.0007	4162.9
22	11B	4160	1	1.0009	4163.8	23	SST13	4160	1	1.0006	4162.5
24	SST15	4160	1	1.0008	4163.4	25	13	480	1	0.9780	469.5
26	15	480	1	0.9782	469.5	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONL (ONLINE LIGHT LOADS)

TABLE: ONL-2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0038	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0917	37.7	7	T12INT	4160	1	1.0916	4540.9
8	12A	4160	1	1.0900	4534.2	9	SST14	4160	1	1.0895	4532.4
10	SST18	4160	1	1.0895	4532.3	11	14	480	1	1.0708	514.0
12	18	480	1	1.0712	514.2	13	1C	480	1	1.0615	509.5
14	12B	4160	1	1.0903	4535.5	15	SST16	4160	1	1.0899	4534.0
16	SST17	4160	1	1.0898	4533.5	17	16	480	1	1.0744	515.7
18	17	480	1	1.0739	515.5	19	1D	480	1	1.0682	512.7
20	T11INT	4160	1	1.0345	4303.5	21	11A	4160	1	1.0007	4162.9
22	11B	4160	1	1.0009	4163.7	23	SST13	4160	1	1.0006	4162.6
24	SST15	4160	1	1.0008	4163.3	25	13	480	1	0.9780	469.5
26	15	480	1	0.9782	469.5	27	751	34.5	1	1.0960	37.8

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

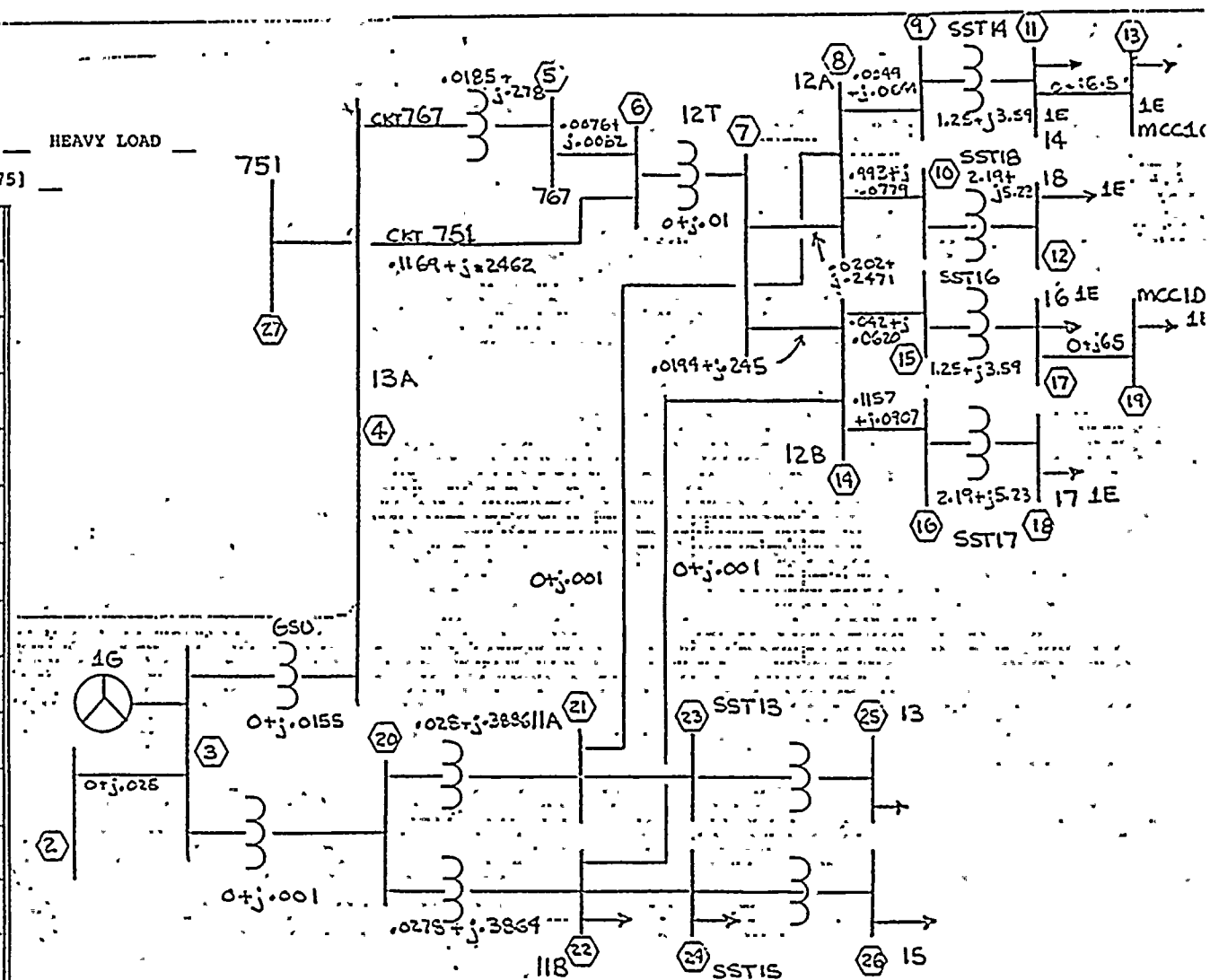
ACTIVITY?



BASE CASE: OFN-1

OPERATING MODE: (1) ONLINE OFFLINE X  
 (2) SAFETY FUSES: LIGHT LOAD NORMAL LOAD HEAVY LOAD  
 (3) INSERVICE OFFSITE SOURCE: CIRCUIT 767 CIRCUIT 751

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.3	.2
5	0	0	18	.3	.2
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	2.7	2.1
9	0	0	22	.5	.4
10	0	0	23	0	0
11	.5	.4	24	0	0
12	.4	.3	25	.3	.2
13	.3	.2	26	.3	.2
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN--1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9444	32.6
6	12T	34.5	1	0.9437	32.6	7	T12INT	4160	1	0.9432	3923.6
8	12A	4160	1	0.9336	3883.7	9	SST14	4160	1	0.9328	3880.2
10	SST18	4160	1	0.9329	3880.8	11	14	480	1	0.8973	430.7
12	18	480	1	0.9058	434.8	13	1C	480	1	0.8822	423.5
14	12B	4160	1	0.9398	3909.5	15	SST16	4160	1	0.9393	3907.5
16	SST17	4160	1	0.9392	3907.1	17	16	480	1	0.9185	440.9
18	17	480	1	0.9206	441.9	19	1D	480	1	0.9077	435.7
21	11A	4160	1	0.9336	3883.6	22	11B	4160	1	0.9398	3909.4
23	SST13	4160	1	0.9335	3883.3	24	SST15	4160	1	0.9397	3909.1
25	13	480	1	0.9148	439.1	26	15	480	1	0.9211	442.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN-1-2

**D**USES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9613	33.2
6	12T	34.5	1	0.9606	33.1	7	T12INT	4160	1	0.9601	3994.1
8	12A	4160	1	0.9507	3955.1	9	SST14	4160	1	0.9499	3951.7
10	SST18	4160	1	0.9501	3952.3	11	14	480	1	0.9152	439.3
12	18	480	1	0.9235	443.3	13	1C	480	1	0.9004	432.2
14	12B	4160	1	0.9568	3980.2	15	SST16	4160	1	0.9563	3978.3
16	SST17	4160	1	0.9562	3977.9	17	16	480	1	0.9359	449.2
18	17	480	1	0.9380	450.2	19	1D	480	1	0.9253	444.1
21	11A	4160	1	0.9507	3955.0	22	11B	4160	1	0.9568	3980.2
23	SST13	4160	1	0.9507	3954.7	24	SST15	4160	1	0.9567	3979.8
25	13	480	1	0.9323	447.5	26	15	480	1	0.9305	450.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFN (OFFLINE NORMAL LOADS) TABLE: OFN-1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	5	767	34.5	1	0.9781	33.7
6	12T	34.5	1	0.9773	33.7	7	T12INT	4160	1	0.9769	4063.8
8	12A	4160	1	0.9677	4025.4	9	SST14	4160	1	0.9669	4022.1
10	SST18	4160	1	0.9670	4022.6	11	14	480	1	0.9328	447.7
12	18	480	1	0.9409	451.6	13	1C	480	1	0.9183	440.8
14	12B	4160	1	0.9736	4050.1	15	SST16	4160	1	0.9731	4048.2
16	SST17	4160	1	0.9730	4047.8	17	16	480	1	0.9531	457.5
18	17	480	1	0.9551	458.5	19	1D	480	1	0.9427	452.5
21	11A	4160	1	0.9676	4025.3	22	11B	4160	1	0.9736	4050.0
23	SST13	4160	1	0.9676	4025.0	24	SST15	4160	1	0.9735	4049.7
25	13	480	1	0.9495	455.8	26	15	480	1	0.9556	458.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN- 1-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0350	119.0	5	767	34.5	1	0.9959	34.4
6	12T	34.5	1	0.9952	34.3	7	T12INT	4160	1	0.9948	4138.2
8	12A	4160	1	0.9857	4100.7	9	SST14	4160	1	0.9850	4097.4
10	SST18	4160	1	0.9851	4098.0	11	14	480	1	0.9516	456.8
12	18	480	1	0.9595	460.6	13	1C	480	1	0.9374	450.0
14	12B	4160	1	0.9915	4124.5	15	SST16	4160	1	0.9910	4122.6
16	SST17	4160	1	0.9909	4122.2	17	13	480	1	0.9714	466.3
18	17	480	1	0.9734	467.2	19	1D	480	1	0.9611	461.3
21	11A	4160	1	0.9857	4100.6	22	11B	4160	1	0.9915	4124.5
23	SST13	4160	1	0.9857	4100.3	24	SST15	4160	1	0.9914	4124.1
25	13	480	1	0.9680	464.6	26	15	480	1	0.9738	467.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN- 1-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	1.0218	35.3
6	12T	34.5	1	1.0211	35.2	7	T12INT	4160	1	1.0207	4245.9
8	12A	4160	1	1.0119	4209.6	9	SST14	4160	1	1.0112	4206.4
10	SST18	4160	1	1.0113	4206.9	11	14	480	1	0.9787	469.8
12	18	480	1	0.9864	473.5	13	1C	480	1	0.9650	463.2
14	12B	4160	1	1.0175	4232.9	15	SST16	4160	1	1.0171	4231.0
16	SST17	4160	1	1.0170	4230.7	17	16	480	1	0.9980	479.0
18	17	480	1	0.9999	479.9	19	1D	480	1	0.9880	474.3
21	11A	4160	1	1.0119	4209.5	22	11B	4160	1	1.0175	4232.8
23	SST13	4160	1	1.0118	4209.2	24	SST15	4160	1	1.0174	4232.5
25	13	480	1	0.9946	477.4	26	15	480	1	1.0003	480.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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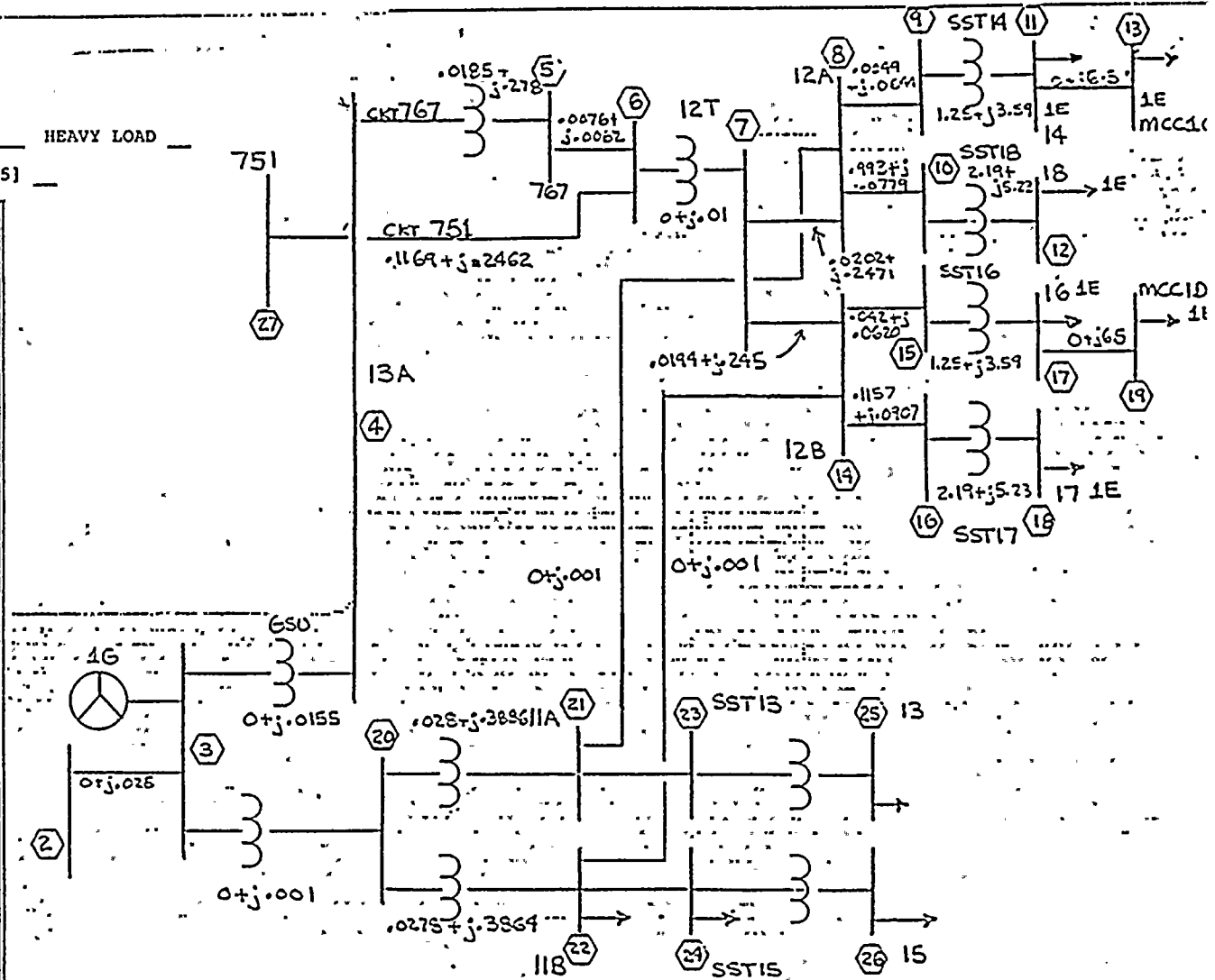
\* NONE \*

ACTIVITY?

BASE CASE: OFN-2

OPERATING MODE: (1) ONLINE 1 OFFLINE X  
(2) SAFETY BUSES:  
LIGHT LOAD NORMAL LOAD     HEAVY LOAD      
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767 CIRCUIT 75]    

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.3	.2
5	0	0	18	.3	.2
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	2.7	2.1
9	0	0	22	.5	.4
10	0	0	23	0	0
11	.5	.4	24	0	0
12	.4	.3	25	.3	.2
13	.3	.2	26	.3	.2
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN- 2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12I	34.5	1	0.9430	32.5
7	T12INT	4160	1	0.9425	3920.8	8	12A	4160	1	0.9329	3881.1
9	SST14	4160	1	0.9321	3877.6	10	SST18	4160	1	0.9323	3878.2
11	14	480	1	0.9966	430.4	12	18	480	1	0.9051	434.4
13	1C	480	1	0.8815	423.1	14	12B	4160	1	0.9391	3906.6
15	SST16	4160	1	0.9386	3904.6	16	SST17	4160	1	0.9385	3904.2
17	16	480	1	0.9178	440.5	18	17	480	1	0.9199	441.6
19	1D	480	1	0.9069	435.3	21	11A	4160	1	0.9329	3881.0
22	11B	4160	1	0.9391	3906.6	23	SST13	4160	1	0.9328	3880.6
24	SST15	4160	1	0.9390	3906.2	25	13	480	1	0.9141	438.8
26	15	480	1	0.9204	441.8	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9817	33.9
7	T12INT	4160	1	0.9813	4082.1	8	12A	4160	1	0.9721	4044.0
9	SST14	4160	1	0.9713	4040.7	10	SST18	4160	1	0.9715	4041.3
11	14	480	1	0.9374	450.0	12	18	480	1	0.9455	453.8
13	1C	480	1	0.9230	443.1	14	12B	4160	1	0.9780	4068.5
15	SST16	4160	1	0.9775	4066.6	16	SST17	4160	1	0.9775	4066.2
17	13	480	1	0.9576	459.7	18	17	480	1	0.9596	460.6
19	1D	480	1	0.9472	454.7	21	11A	4160	1	0.9721	4043.9
22	11B	4160	1	0.9780	4068.5	23	SST13	4160	1	0.9720	4043.6
24	SST15	4160	1	0.9779	4068.1	25	13	480	1	0.9541	458.0
26	15	480	1	0.9601	460.9	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN 2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0114	34.9
7	T12INT	4160	1	1.0109	4205.5	8	12A	4160	1	1.0021	4168.5
9	SST14	4160	1	1.0013	4165.3	10	SST18	4160	1	1.0014	4165.8
11	14	480	1	0.9685	464.9	12	18	480	1	0.9763	468.6
13	1C	480	1	0.9546	458.2	14	12B	4160	1	1.0079	4192.7
15	SST16	4160	1	1.0074	4190.9	16	SST17	4160	1	1.0073	4190.5
17	16	480	1	0.9881	474.3	18	17	480	1	0.9901	475.2
19	1D	480	1	0.9781	469.5	21	11A	4160	1	1.0020	4168.4
22	11B	4160	1	1.0079	4192.7	23	SST13	4160	1	1.0020	4168.2
24	SST15	4160	1	1.0078	4192.4	25	13	480	1	0.9846	472.6
26	15	480	1	0.9905	475.4	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN-2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0319	35.6
7	T12INT	4160	1	1.0315	4290.8	8	12A	4160	1	1.0229	4255.1
9	SST14	4160	1	1.0221	4252.0	10	SST18	4160	1	1.0222	4252.5
11	14	480	1	0.9901	475.2	12	18	480	1	0.9976	478.9
13	1C	480	1	0.9765	468.7	14	12B	4160	1	1.0284	4278.3
15	SST16	4160	1	1.0280	4276.5	16	SST17	4160	1	1.0279	4276.1
17	16	480	1	1.0091	484.4	18	17	480	1	1.0110	485.3
19	1D	480	1	0.9993	479.7	21	11A	4160	1	1.0228	4255.0
22	11B	4160	1	1.0284	4278.2	23	SST13	4160	1	1.0228	4254.8
24	SST15	4160	1	1.0283	4277.9	25	13	480	1	1.0058	482.8
26	15	480	1	1.0115	485.5	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFN (OFFLINE NORMAL LOADS)

TABLE: OFN-2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0795	37.2
7	T12INT	4160	1	1.0791	4489.2	8	12A	4160	1	1.0707	4454.8
9	SST14	4160	1	1.0701	4451.8	10	SST18	4160	1	1.0703	4452.3
11	14	480	1	1.0397	499.0	12	18	480	1	1.0468	502.5
13	1C	480	1	1.0268	492.8	14	12B	4160	1	1.0762	4477.0
15	SST16	4160	1	1.0758	4475.3	16	SST17	4160	1	1.0757	4474.9
17	13	480	1	1.0578	507.7	18	17	480	1	1.0596	508.6
19	1D	480	1	1.0484	503.2	21	11A	4160	1	1.0708	4454.7
22	11B	4160	1	1.0762	4477.0	23	SST13	4160	1	1.0708	4454.4
24	SST15	4160	1	1.0761	4476.7	25	13	480	1	1.0546	506.2
26	15	480	1	1.0600	508.8	27	751	34.5	1	1.0960	37.8

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

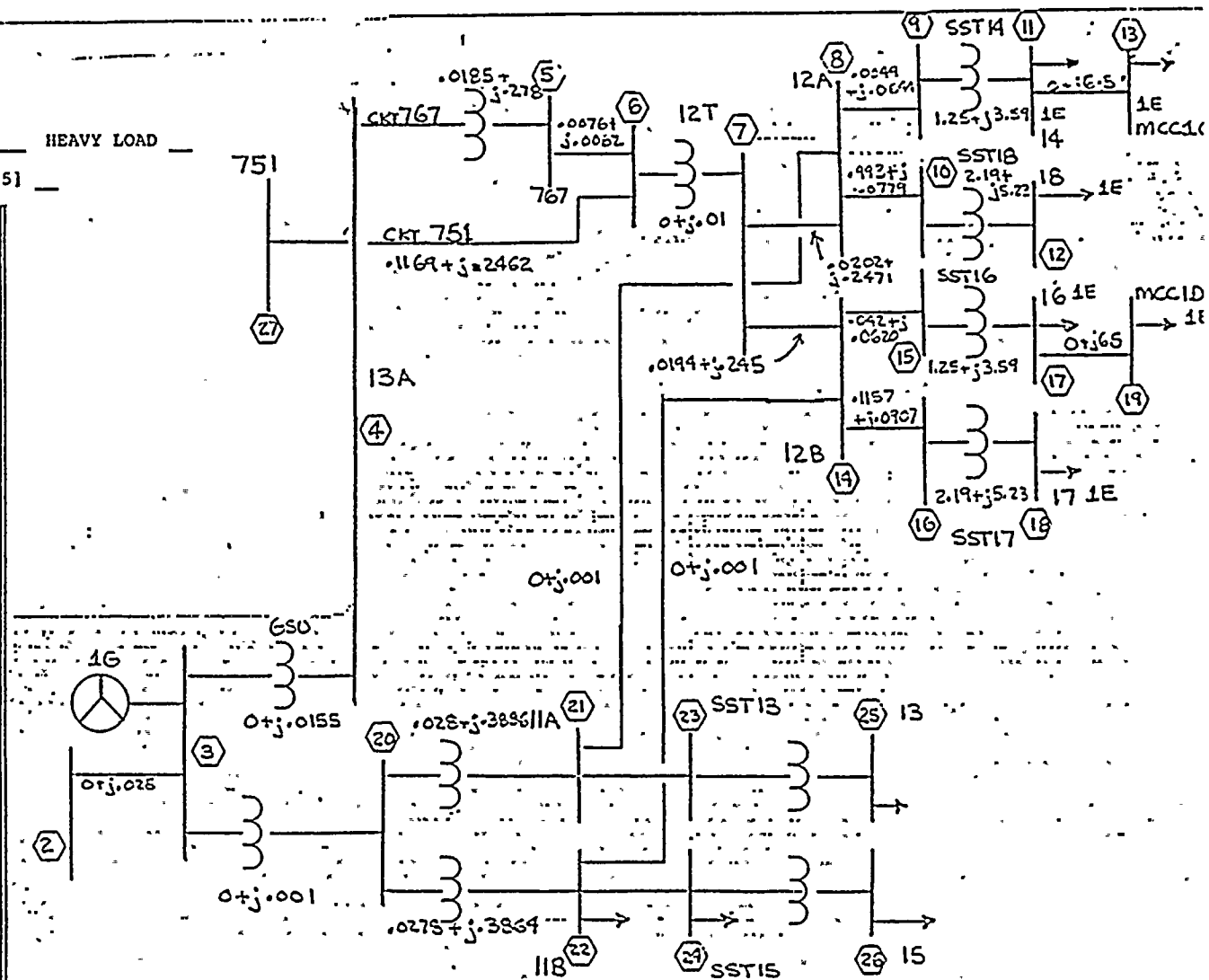
ACTIVITY?



BASE CASE: OFH-1

OPERATING MODE: (1) ONLINE 4 OFFLINE X  
 (2) SAFETY FUSES: LIGHT LOAD NORMAL LOAD HEAVY LOAD  
 (3) INSERVICE OFFSITE SOURCE: CIRCUI 767 CIRCUI 751

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	1.6	1.2
5	0	0	18	.5	.4
6	0	0	19	.1	.1
7	0	0	20	0	0
8	0	0	21	5	4
9	0	0	22	5	4
10	0	0	23	0	0
11	1.6	1.2	24	0	0
12	.5	.4	25	.3	.3
13	.1	.1	26	.3	.3
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFH (OFFLINE HEAVY LOADS)

TABLE: OFH-1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9151	31.6
6	12T	34.5	1	0.9129	31.5	7	T12INT	4160	1	0.9115	3791.6
8	12A	4160	1	0.8923	3711.9	9	SST14	4160	1	0.8902	3703.4
10	SST18	4160	1	0.8914	3708.0	11	14	480	1	0.8040	385.9
12	18	480	1	0.8551	410.4	13	1C	480	1	0.7966	382.4
14	12B	4160	1	0.8925	3712.9	15	SST16	4160	1	0.8906	3704.7
16	SST17	4160	1	0.8914	3708.4	17	16	480	1	0.8043	386.1
18	17	480	1	0.8551	410.5	19	1B	480	1	0.7969	382.5
21	11A	4160	1	0.8922	3711.7	22	11B	4160	1	0.8925	3712.7
23	SST13	4160	1	0.8921	3711.3	24	SST15	4160	1	0.8924	3712.2
25	13	480	1	0.8675	416.4	26	15	480	1	0.8677	416.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFH (OFFLINE HEAVY LOADS) TABLE: OFH- 1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9327	32.2
6	12T	34.5	1	0.9306	32.1	7	T12INT	4160	1	0.9292	3865.3
8	12A	4160	1	0.9105	3787.6	9	SST14	4160	1	0.9085	3779.3
10	SST18	4160	1	0.9096	3783.8	11	14	480	1	0.8245	395.7
12	18	480	1	0.8741	419.6	13	1C	480	1	0.8173	392.3
14	12B	4160	1	0.9106	3788.1	15	SST16	4160	1	0.9087	3780.2
16	SST17	4160	1	0.9095	3783.7	17	16	480	1	0.8247	395.9
18	17	480	1	0.8741	419.5	19	1D	480	1	0.8175	392.4
21	11A	4160	1	0.9104	3787.4	22	11B	4160	1	0.9106	3787.9
23	SST13	4160	1	0.9103	3787.0	24	SST15	4160	1	0.9105	3787.5
25	13	480	1	0.8862	425.4	26	15	480	1	0.8863	425.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFH (OFFLINE HEAVY LOADS)

TABLE: OFH-1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.9595	33.1
6	12T	34.5	1	0.9575	33.0	7	T12INT	4160	1	0.9561	3777.4
8	12A	4160	1	0.9379	3901.8	9	SST14	4160	1	0.9360	3893.9
10	SST18	4160	1	0.9371	3898.2	11	14	480	1	0.8551	410.5
12	18	480	1	0.9027	433.3	13	1C	480	1	0.8482	407.1
14	12B	4160	1	0.9382	3903.0	15	SST16	4160	1	0.9364	3895.4
16	SST17	4160	1	0.9372	3898.7	17	16	480	1	0.8555	410.6
18	17	480	1	0.9028	433.4	19	1D	480	1	0.8486	407.3
21	11A	4160	1	0.9379	3901.6	22	11B	4160	1	0.9382	3902.8
23	SST13	4160	1	0.9378	3901.3	24	SST15	4160	1	0.9381	3902.4
25	13	480	1	0.9145	438.9	26	15	480	1	0.9147	439.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
* NONE *											

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFH (OFFLINE HEAVY LOADS) TABLE: OFH- 1-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0010	122.0	5	767	34.5	1	0.9955	34.3
6	12T	34.5	1	0.9935	34.3	7	T12INT	4160	1	0.9922	4127.7
8	12A	4160	1	0.9749	4055.7	9	SST14	4160	1	0.9731	4048.1
10	SST18	4160	1	0.9741	4052.2	11	14	480	1	0.8960	430.1
12	18	480	1	0.9411	451.7	13	1C	480	1	0.8894	426.9
14	12B	4160	1	0.9750	4056.2	15	SST16	4160	1	0.9733	4048.9
16	SST17	4160	1	0.9741	4052.1	17	16	480	1	0.8962	430.2
18	17	480	1	0.9411	451.7	19	1D	480	1	0.8896	427.0
21	11A	4160	1	0.9749	4055.5	22	11B	4160	1	0.9750	4056.0
23	SST13	4160	1	0.9748	4055.1	24	SST15	4160	1	0.9749	4055.6
25	13	480	1	0.9524	457.1	26	15	480	1	0.9525	457.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFH (OFFLINE HEAVY LOADS)

TABLE: OFH-1-4 P Out Page 1

BUS	4 13A	115 AREA CKT	KW	KVAR	KVA	%	1.0310PU	0.00	4
GENERATION									
TO	5 767	34.5 1	1 15454.4	14006.5	20857.2	0	1.0250LK		

BUS	5 767	34.5 AREA CKT	KW	KVAR	KVA	%	0.9955PU	-2.25	5
TO 4 13A 115 1 1-15379.4-12877.5 20058.8 0 1.0250UN									
TO 6 12T 34.5 1 1 15381.6 12881.0 20062.8 0									
M I S M A T C H -2.3 -3.5 4.2									

BUS	6 12T	34.5 AREA CKT	KW	KVAR	KVA	%	0.9935PU	-2.24	6
TO 5 767 34.5 1 1-15353.6-12849.6 20021.1 0 34.28KV									
TO 7 T12INT 4160 1 1 15354.6 12858.7 20027.8 0 1.0000LK									
M I S M A T C H -1.1 -9.1 9.1									

BUS	7 T12INT	4160 AREA CKT	KW	KVAR	KVA	%	0.9922PU	-2.33	7
TO 6 12T 34.5 1 1-15354.4-12815.1 19999.6 0 4127.7KV									
TO 8 12A 4160 1 1 7678.2 6393.4 9991.5 0 1.0000UN									
TO 14 12B 4160 1 1 7676.2 6423.5 10009.2 0									
M I S M A T C H -0.0 -1.9 1.9									

BUS	8 12A	4160 AREA CKT	KW	KVAR	KVA	%	0.9749PU	-3.38	8
TO 7 T12INT 4160 1 1 -7657.7 -6142.7 9817.0 0 4055.7KV									
TO 9 SST14 4160 1 1 1794.3 1502.7 2340.4 0									
TO 10 SST18 4160 1 1 509.9 403.8 650.5 0									
TO 21 11A 4160 1 1 5354.9 4273.5 6851.1 0									
M I S M A T C H -1.4 -37.3 37.3									

BUS	9 SST14	4160 AREA CKT	KW	KVAR	KVA	%	0.9731PU	-3.41	9
TO 8 12A 4160 1 1 -1791.8 -1498.2 2335.7 0 4048.1KV									
TO 11 14 480 1 1 1792.0 1498.8 2336.2 0 1.0000LK									
M I S M A T C H -0.2 -0.5 0.6									

BUS	10 SST18	4160 AREA CKT	KW	KVAR	KVA	%	0.9741PU	-3.38	10
TO 8 12A 4160 1 1 -509.7 -403.1 649.8 0 4052.2KV									
TO 12 18 480 1 1 509.8 403.3 650.0 0 1.0000LK									

BUS	11 14	480 AREA CKT	KW	KVAR	KVA	%	0.8960PU	-6.41	11
TO LOAD-PQ 1600.0 1200.0 2000.0 430.07KV									
TO 9 SST14 4160 1 1 -1720.0 -1291.8 2151.1 0 1.0000UN									
TO 13 1C 480 1 1 120.0 91.9 151.1 0									

BUS	12 18	480 AREA CKT	KW	KVAR	KVA	%	0.9411PU	-4.49	12
TO LOAD-PQ 500.0 380.0 628.0 451.75KV									
TO 10 SST18 4160 1 1 -500.0 -380.0 628.0 0 1.0000UN									

ENTER 0 TO END LIST, 1 FOR NEXT PAGE 1



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFH (OFFLINE HEAVY LOADS)

TABLE: OFH-1-4 Page 2

BUS 13 1C 480 AREA CKT KW KVAR KVA % 0.9894PU -6.97 13  
1 426.91KV

TO LOAD-PQ 120.0 90.0 150.0  
TO 11 14 480 1 1 -120.0 -90.0 150.0 0

BUS 14 12B 4160 AREA CKT KW KVAR KVA % 0.9750PU -3.37 14  
1 4056.2KV

TO 7 T12INT 4160 1 1 -7656.4 -3173.9 9835.5 0  
TO 15 SST16 4160 1 1 1794.2 1502.4 2340.1 0  
TO 16 SST17 4160 1 1 510.0 404.0 650.7 0  
TO 22 11B 4160 1 1 5352.7 4286.8 6857.7 0

M I S M A T C H -0.5 -19.2 19.2

BUS 15 SST16 4160 AREA CKT KW KVAR KVA % 0.9733PU -3.40 15  
1 4048.9KV

TO 14 12B 4160 1 1 -1791.7 -1498.0 2335.5 0  
TO 17 16 480 1 1 1792.0 1498.7 2336.1 0 1.0000LK

M I S M A T C H -0.3 -0.6 0.7

BUS 16 SST17 4160 AREA CKT KW KVAR KVA % 0.9741PU -3.37 16  
1 4052.1KV

TO 14 12B 4160 1 1 -509.6 -403.2 649.3 0  
TO 18 17 480 1 1 509.7 403.3 650.0 0 1.0000LK

BUS 17 16 480 AREA CKT KW KVAR KVA % 0.8962PU -6.40 17  
1 430.19KV

TO LOAD-PQ 1600.0 1200.0 2000.0  
TO 15 SST16 4160 1 1 -1720.0 -1291.8 2151.1 0 1.0000UN  
TO 19 1D 480 1 1 120.0 91.9 151.1 0

BUS 18 17 480 AREA CKT KW KVAR KVA % 0.9411PU -4.49 18  
1 451.74KV

TO LOAD-PQ 500.0 380.0 628.0  
TO 16 SST17 4160 1 1 -500.0 -380.0 628.0 0 1.0000UN

BUS 19 1D 480 AREA CKT KW KVAR KVA % 0.8896PU -6.96 19  
1 427.01KV

TO LOAD-PQ 120.0 90.0 150.0  
TO 17 16 480 1 1 -120.0 -90.0 150.0 0

BUS 21 11A 4160 AREA CKT KW KVAR KVA % 0.9749PU -3.38 21  
1 4055.5KV

TO LOAD-PQ 5000.0 4000.0 6403.1  
TO 8 12A 4160 1 1 -5352.0 -4249.3 6833.8 0  
TO 23 SST13 4160 1 1 352.1 272.0 444.9 0

M I S M A T C H -0.1 -22.7 22.7

BUS 22 11B 4160 AREA CKT KW KVAR KVA % 0.9750PU -3.38 22  
1 4056.0KV

TO LOAD-PQ 5000.0 4000.0 6403.1  
TO 14 12B 4160 1 1 -5349.8 -4262.6 6840.4 0  
TO 24 SST15 4160 1 1 351.3 271.4 443.9 0

M I S M A T C H -1.5 -8.8 8.9

ENTER 0 TO END LIST, 1 FOR NEXT PAGE 1

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFH (OFFLINE HEAVY LOADS)

TABLE: OFH-1-4 Page 3

BUS	23 SST13	4160 AREA CKT	KW	KVAR	KVA	%	0.9748PU	-3.38	23
		1					4055.1KV		
TO	21 11A	4160 1 1	-353.4	-269.7	444.6	0			
TO	25 13	480 1 1	354.6	271.0	446.3	0	1.0000LK		
M I S M A T C H			-1.2	-1.3	1.8				

BUS	24 SST15	4160 AREA CKT	KW	KVAR	KVA	%	0.9749PU	-3.38	24
		1					4055.6KV		
TO	22 11B	4160 1 1	-352.7	-269.8	444.0	0			
TO	26 15	480 1 1	354.6	271.0	446.3	0	1.0000LK		
M I S M A T C H			-1.9	-1.2	2.2				

BUS	25 13	480 AREA CKT	KW	KVAR	KVA	%	0.9524PU	-4.16	25
		1					457.14KV		
TO	LOAD-PQ		350.0	260.0	436.0				
TO	23 SST13	4160 1 1	-350.0	-260.0	436.0	0	1.0000UN		

BUS	26 15	480 AREA CKT	KW	KVAR	KVA	%	0.9525PU	-4.15	26
		1					457.19KV		
TO	LOAD-PQ		350.0	260.0	436.0				
TO	24 SST15	4160 1 1	-350.0	-260.0	436.0	0	1.0000UN		

ACTIVITY?

BASE CASE: OFH-2

OPERATING MODE:

(1) ONLINE      &      OFFLINE X

(2) SAFETY BUSES:

LIGHT LOAD

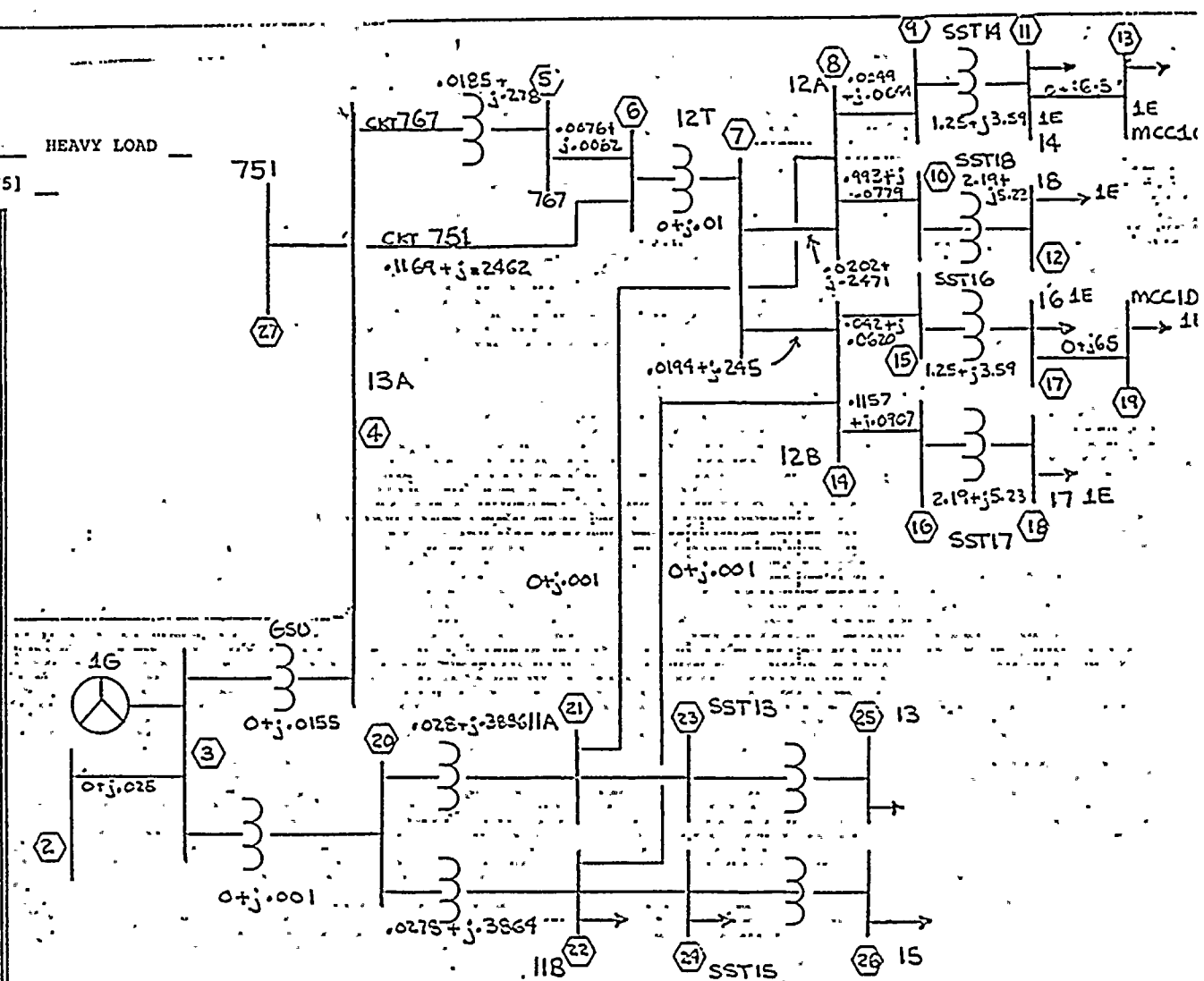
**NORMAL LOAD**

### HEAVY LOAD

(3) INSERVICE OFFSITE SOURCE:

CIRCUIT 767 CIRCUIT 75]

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	1.6	1.2
5	0	0	18	.5	.4
6	0	0	19	.1	.1
7	0	0	20	0	0
8	0	0	21	5	4
9	0	0	22	5	4
10	0	0	23	0	0
11	1.6	1.2	24	0	0
12	.5	.4	25	.3	.3
13	.1	.1	26	.3	.3
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE DFH (OFFLINE HEAVY LOADS)

TABLE: DFH-2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9062	31.3
7	T12INT	4160	1	0.9047	3763.6	8	12A	4160	1	0.8853	3683.0
9	SST14	4160	1	0.8833	3674.5	10	SST18	4160	1	0.8844	3679.2
11	14	480	1	0.7962	382.2	12	18	480	1	0.8478	406.9
13	1C	480	1	0.7887	378.6	14	12B	4160	1	0.8856	3684.1
15	SST16	4160	1	0.8836	3675.9	16	SST17	4160	1	0.8845	3679.6
17	16	480	1	0.7965	382.3	18	17	480	1	0.8479	407.0
19	1D	480	1	0.7891	378.7	21	11A	4160	1	0.8853	3682.8
22	11B	4160	1	0.8856	3683.9	23	SST13	4160	1	0.8852	3682.4
24	SST15	4160	1	0.8854	3683.4	25	13	480	1	0.8604	413.0
26	15	480	1	0.8606	413.1	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFH (OFFLINE HEAVY LOADS) TABLE: OFH- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9470	32.7
7	T12INT	4160	1	0.9456	3933.7	8	12A	4160	1	0.9273	3857.5
9	SST14	4160	1	0.9253	3849.4	10	SST18	4160	1	0.9264	3853.8
11	14	480	1	0.8433	404.8	12	18	480	1	0.8916	428.0
13	1C	480	1	0.8362	401.4	14	12B	4160	1	0.9274	3858.0
15	SST16	4160	1	0.9255	3850.2	16	SST17	4160	1	0.9264	3853.7
17	16	480	1	0.8435	404.9	18	17	480	1	0.8916	428.0
19	1D	480	1	0.8364	401.5	21	11A	4160	1	0.9272	3857.3
22	11B	4160	1	0.9274	3857.8	23	SST13	4160	1	0.9271	3856.9
24	SST15	4160	1	0.9273	3857.4	25	13	480	1	0.9035	433.7
26	15	480	1	0.9036	433.7	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFH (OFFLINE HEAVY LOADS)

TABLE: OFH- 2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9779	33.7
7	T12INT	4160	1	0.9766	4062.6	8	12A	4160	1	0.9589	3989.1
9	SST14	4160	1	0.9571	3931.3	10	SST18	4160	1	0.9581	3905.5
11	14	480	1	0.8784	421.6	12	18	480	1	0.9245	443.8
13	1C	480	1	0.8716	418.4	14	12B	4160	1	0.9591	3989.8
15	SST16	4160	1	0.9573	3982.4	16	SST17	4160	1	0.9581	3985.7
17	16	480	1	0.8786	421.7	18	17	480	1	0.9246	443.8
19	1D	480	1	0.8719	418.5	21	11A	4160	1	0.9589	3988.9
22	11B	4160	1	0.9590	3989.6	23	SST13	4160	1	0.9588	3988.5
24	SST15	4160	1	0.9589	3989.2	25	13	480	1	0.9360	449.3
26	15	480	1	0.9361	449.3	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFH (OFFLINE HEAVY LOADS) TABLE: OFH-2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9992	34.5
7	T12INT	4160	1	0.9979	4151.2	8	12A	4160	1	0.9807	4079.5
9	SST14	4160	1	0.9789	4072.0	10	SST18	4160	1	0.9798	4076.1
11	14	480	1	0.9023	433.1	12	18	480	1	0.9471	454.6
13	1C	480	1	0.8958	430.0	14	12B	4160	1	0.9809	4080.4
15	SST16	4160	1	0.9791	4073.1	16	SST17	4160	1	0.9799	4076.3
17	16	480	1	0.9026	433.3	18	17	480	1	0.9472	454.6
19	1D	480	1	0.8960	430.1	21	11A	4160	1	0.9806	4079.4
22	11B	4160	1	0.9808	4080.2	23	SST13	4160	1	0.9805	4079.0
24	SST15	4160	1	0.9807	4079.8	25	13	480	1	0.9583	460.0
26	15	480	1	0.9584	460.1	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFH (OFFLINE HEAVY LOADS)

TABLE: OFH- 2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0490	36.2
7	T12INT	4160	1	1.0478	4359.0	8	12A	4160	1	1.0316	4291.5
9	SST14	4160	1	1.0299	4204.4	10	SST13	4160	1	1.0308	4288.2
11	14	480	1	0.9580	459.8	12	18	480	1	0.9798	479.9
13	1C	480	1	0.9518	456.9	14	12B	4160	1	1.0318	4292.3
15	SST16	4160	1	1.0302	4285.5	16	SST17	4160	1	1.0309	4288.5
17	16	480	1	0.9582	460.0	18	17	480	1	0.9999	460.0
19	1D	480	1	0.9521	457.0	21	11A	4160	1	1.0316	4291.3
22	11B	4160	1	1.0318	4292.1	23	SST13	4160	1	1.0315	4291.0
24	SST15	4160	1	1.0317	4291.7	25	13	480	1	1.0104	485.0
26	15	480	1	1.0106	485.1	27	751	34.5	1	1.0960	37.8

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

OFL-1

BASE CASE: LIGHT LOAD OFFLINE

OPERATING MODE: (1) ONLINE \_\_\_\_\_ OFFLINE X

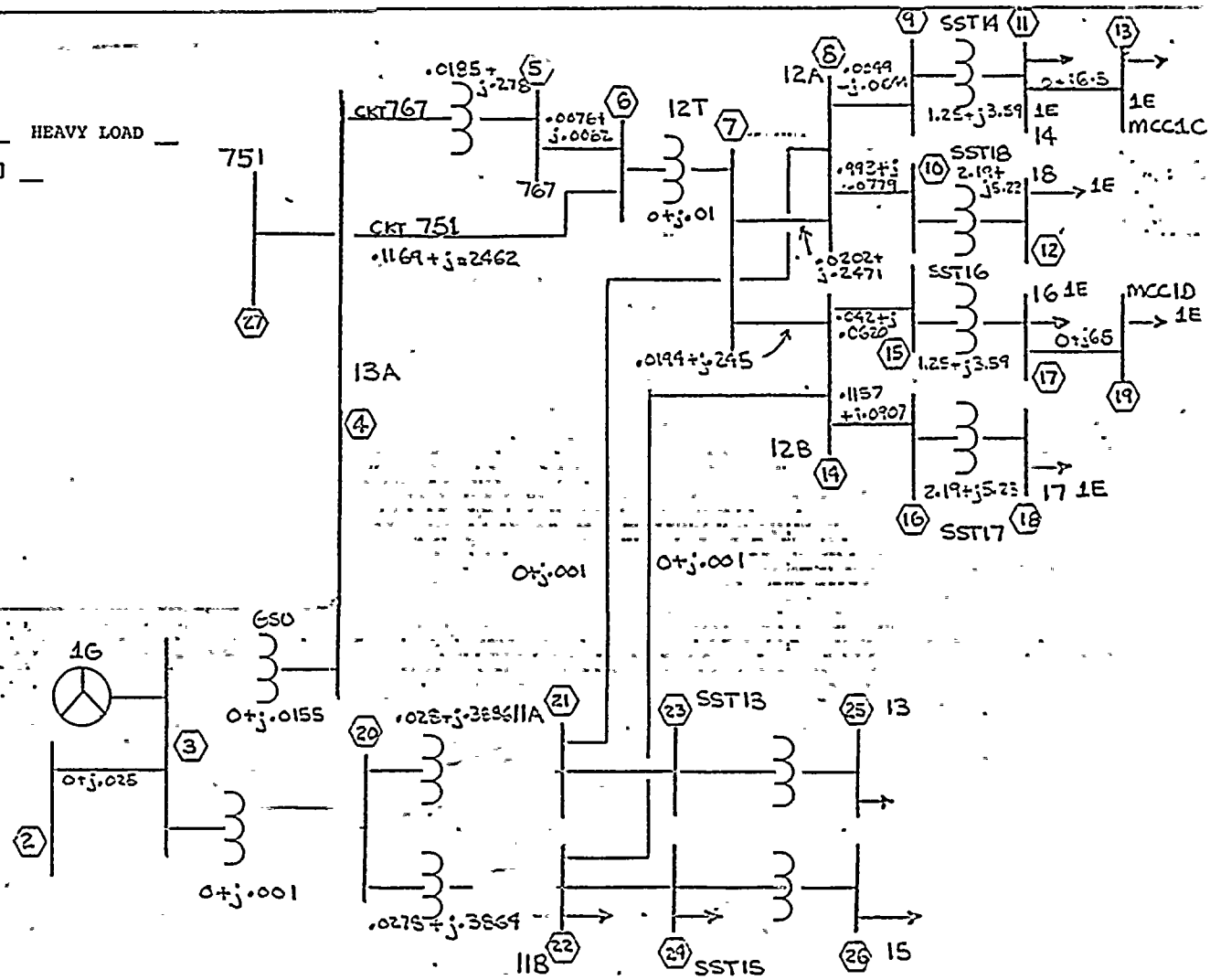
(2) SAFETY BUSES:

LIGHT LOAD X NORMAL LOAD

(3) INSERVICE OFFSITE SOURCE:

CIRCUIT 767 X CIRCUIT 75]

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	0	0	15	0	0
3	0	0	16	0	0
4	0	0	17	.3	.2
5	0	0	18	.3	.2
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	.3	.2
9	0	0	22	.3	.2
10	0	0	23	0	0
11	.3	.2	24	0	0
12	.3	.2	25	.4	.3
13	.2	.1	26	.4	.3
14	0	0	27	0	0





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL-1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9523	32.9
6	12T	34.5	1	0.9519	32.8	7	T12INT	4160	1	0.9517	3959.0
8	12A	4160	1	0.9486	3946.0	9	SST14	4160	1	0.9481	3943.9
10	SST18	4160	1	0.9480	3943.8	11	14	480	1	0.9263	444.6
12	18	480	1	0.9268	444.9	13	1C	480	1	0.9155	439.5
14	12B	4160	1	0.9487	3946.8	15	SST16	4160	1	0.9483	3945.1
16	SST17	4160	1	0.9482	3944.4	17	16	480	1	0.9203	446.6
18	17	480	1	0.9298	446.3	19	1D	480	1	0.9232	443.1
20	T11INT	4160	1	0.9487	3946.4	21	11A	4160	1	0.9486	3946.0
22	11B	4160	1	0.9487	3946.8	23	SST13	4160	1	0.9485	3945.6
24	SST15	4160	1	0.9486	3946.3	25	13	480	1	0.9246	443.8
26	15	480	1	0.9247	443.9						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS

CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL- 1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9689	33.4
6	12T	34.5	1	0.9686	33.4	7	T12INT	4160	1	0.9683	4028.3
8	12A	4160	1	0.9652	4015.4	9	SST14	4160	1	0.9647	4013.3
10	SST18	4160	1	0.9647	4013.2	11	14	480	1	0.9434	452.8
12	18	480	1	0.9439	453.1	13	1C	480	1	0.9328	447.8
14	12B	4160	1	0.9654	4016.2	15	SST16	4160	1	0.9650	4014.5
16	SST17	4160	1	0.9649	4013.9	17	16	480	1	0.9474	454.7
18	17	480	1	0.9468	454.5	19	1D	480	1	0.9403	451.4
20	T11INT	4160	1	0.9653	4015.8	21	11A	4160	1	0.9652	4015.4
22	11B	4160	1	0.9654	4016.2	23	SST13	4160	1	0.9651	4015.0
24	SST15	4160	1	0.9653	4015.8	25	13	480	1	0.9417	452.0
26	15	480	1	0.9419	452.1						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL-1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.9944	34.3
6	12T	34.5	1	0.9940	34.3	7	T12INT	4160	1	0.9938	4134.3
8	12A	4160	1	0.9908	4121.7	9	SST14	4160	1	0.9903	4119.7
10	SST18	4160	1	0.9903	4119.5	11	14	480	1	0.9695	465.4
12	18	480	1	0.9700	465.6	13	1C	480	1	0.9593	460.5
14	12B	4160	1	0.9909	4122.3	15	SST16	4160	1	0.9905	4120.7
16	SST17	4160	1	0.9904	4120.1	17	16	480	1	0.9734	467.2
18	17	480	1	0.9728	467.0	19	1D	480	1	0.9665	463.2
20	T11INT	4160	1	0.9909	4122.0	21	11A	4160	1	0.9908	4121.7
22	11B	4160	1	0.9909	4122.3	23	SST13	4160	1	0.9907	4121.3
24	SST15	4160	1	0.9908	4121.9	25	13	480	1	0.9679	464.6
26	15	480	1	0.9680	464.6						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS

CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL-1-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	1.0291	35.5
6	12T	34.5	1	1.0287	35.5	7	T12INT	4160	1	1.0285	4278.6
8	12A	4160	1	1.0257	4266.9	9	SST14	4160	1	1.0252	4264.9
10	SST18	4160	1	1.0252	4264.8	11	14	480	1	1.0052	482.5
12	18	480	1	1.0057	482.7	13	1C	480	1	0.9953	477.8
14	12B	4160	1	1.0259	4267.7	15	SST16	4160	1	1.0255	4266.1
16	SST17	4160	1	1.0254	4265.5	17	16	480	1	1.0089	484.3
18	17	480	1	1.0084	484.0	19	1D	480	1	1.0024	481.1
20	T11INT	4160	1	1.0258	4267.3	21	11A	4160	1	1.0257	4266.9
22	11B	4160	1	1.0259	4267.7	23	SST13	4160	1	1.0256	4266.5
24	SST15	4160	1	1.0258	4267.3	25	13	480	1	1.0036	481.7
26	15	480	1	1.0038	481.8						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

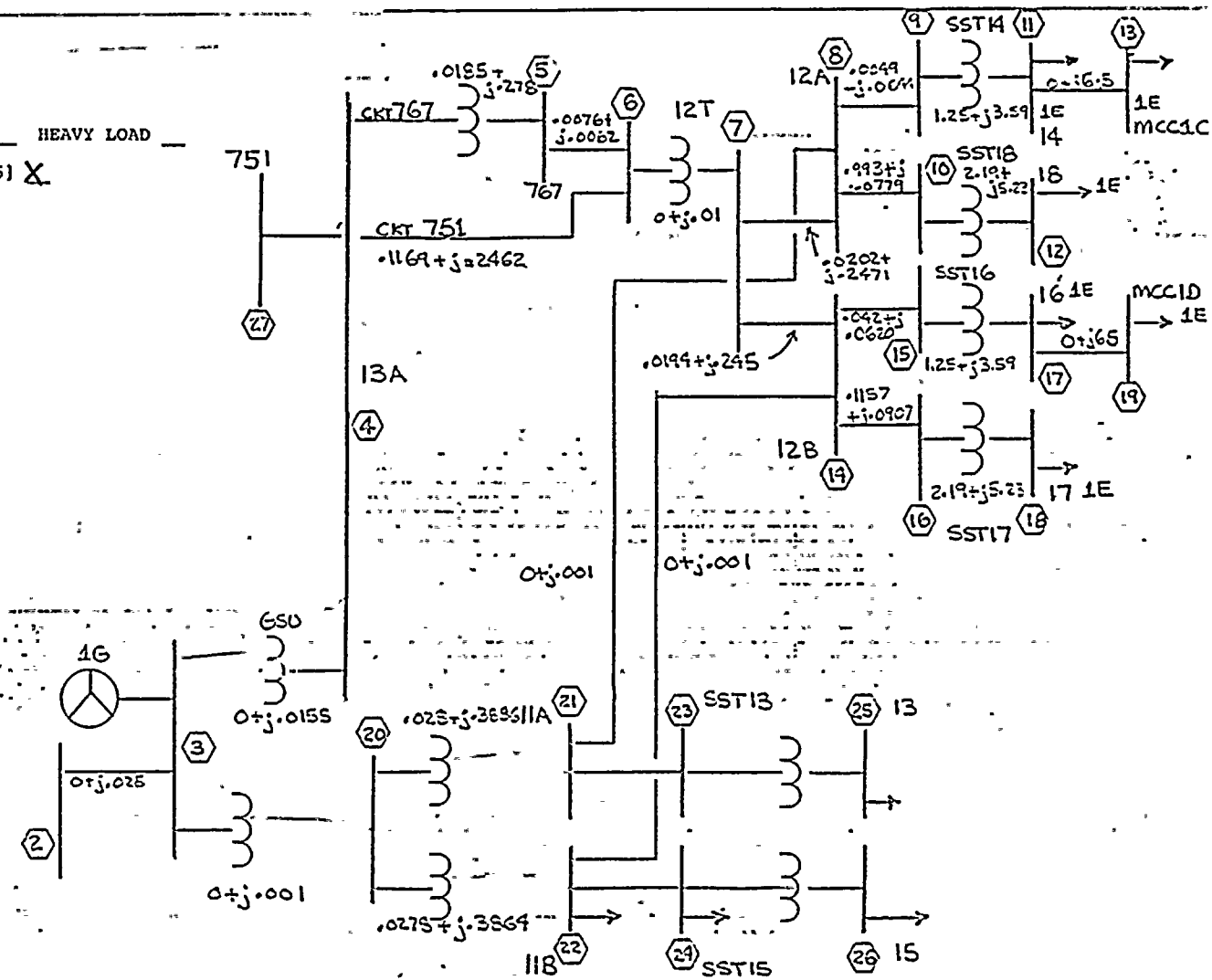


OFL-2

BASE CASE: LIGHT LOAD OFFLINE

OPERATING MODE: (1) ONLINE OFFLINE X  
(2) SAFETY BUSES:  
LIGHT LOAD X NORMAL LOAD — HEAVY LOAD —  
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767 — CIRCUIT 751 X

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	0	0	15	0	0
3	0	0	16	0	0
4	0	0	17	.3	.2
5	0	0	18	.3	.2
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	.3	.2
9	0	0	22	.3	.2
10	0	0	23	0	0
11	.3	.2	24	0	0
12	.3	.2	25	.4	.3
13	.2	.1	26	.4	.3
14	0	0	27	0	0





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL- 2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9529	32.9
7	T12INT	4160	1	0.9527	3963.1	8	12A	4160	1	0.9496	3950.2
9	SST14	4160	1	0.9491	3948.1	10	SST18	4160	1	0.9490	3947.9
11	14	480	1	0.9273	445.1	12	18	480	1	0.9279	445.4
13	1C	480	1	0.9166	440.0	14	12B	4160	1	0.9497	3950.7
15	SST16	4160	1	0.9493	3949.0	16	SST17	4160	1	0.9491	3948.3
17	16	480	1	0.9313	447.0	18	17	480	1	0.9307	446.8
19	1D	480	1	0.9241	443.6	20	T11INT	4160	1	0.9496	3950.4
21	11A	4160	1	0.9496	3950.2	22	11B	4160	1	0.9497	3950.7
23	SST13	4160	1	0.9495	3949.8	24	SST15	4160	1	0.9496	3950.3
25	13	480	1	0.9256	444.3	26	15	480	1	0.9257	444.3
27	751	34.5	1	0.9620	33.2						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9913	34.2
7	T12INT	4160	1	0.9911	4123.0	8	12A	4160	1	0.9881	4110.5
9	SST14	4160	1	0.9876	4108.5	10	SST18	4160	1	0.9876	4108.3
11	14	480	1	0.9668	464.1	12	18	480	1	0.9673	464.3
13	1C	480	1	0.9565	459.1	14	12B	4160	1	0.9883	4111.3
15	SST16	4160	1	0.9879	4109.6	16	SST17	4160	1	0.9877	4109.0
17	16	480	1	0.9706	465.9	18	17	480	1	0.9701	465.7
19	1D	480	1	0.9638	462.6	20	T11INT	4160	1	0.9882	4110.9
21	11A	4160	1	0.9881	4110.5	22	11B	4160	1	0.9883	4111.2
23	SST13	4160	1	0.9880	4110.1	24	SST15	4160	1	0.9882	4110.8
25	13	480	1	0.9651	463.3	26	15	480	1	0.9653	463.3
27	751	34.5	1	1.0000	34.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFL (OFFLINE LIGHT LOADS) TABLE: OFL- 2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0208	35.2
7	T12INT	4160	1	1.0206	4245.5	8	12A	4160	1	1.0177	4233.7
9	SST14	4160	1	1.0172	4231.7	10	SST18	4160	1	1.0172	4231.6
11	14	480	1	0.9971	478.6	12	18	480	1	0.9975	478.8
13	1C	480	1	0.9871	473.8	14	12B	4160	1	1.0179	4234.6
15	SST16	4160	1	1.0176	4233.0	16	SST17	4160	1	1.0174	4232.4
17	16	480	1	1.0008	480.4	18	17	480	1	1.0003	480.2
19	1D	480	1	0.9942	477.2	20	T11INT	4160	1	1.0178	4234.1
21	11A	4160	1	1.0177	4233.7	22	11B	4160	1	1.0179	4234.6
23	SST13	4160	1	1.0176	4233.3	24	SST15	4160	1	1.0178	4234.2
25	13	480	1	0.9954	477.8	26	15	480	1	0.9957	477.9
27	751	34.5	1	1.0290	35.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL- 2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0409	35.9
7	T12INT	4160	1	1.0407	4329.1	8	12A	4160	1	1.0379	4317.5
9	SST14	4160	1	1.0374	4315.6	10	SST18	4160	1	1.0374	4315.5
11	14	480	1	1.0176	489.5	12	18	480	1	1.0181	489.7
13	1C	480	1	1.0079	483.8	14	12B	4160	1	1.0380	4318.2
15	SST16	4160	1	1.0376	4316.6	16	SST17	4160	1	1.0375	4316.0
17	16	480	1	1.0213	490.2	18	17	480	1	1.0208	490.0
19	1D	480	1	1.0148	487.1	20	T11INT	4160	1	1.0379	4317.9
21	11A	4160	1	1.0379	4317.5	22	11B	4160	1	1.0380	4318.2
23	SST13	4160	1	1.0378	4317.2	24	SST15	4160	1	1.0379	4317.8
25	13	480	1	1.0160	487.7	26	15	480	1	1.0162	487.8
27	751	34.5	1	1.0490	36.2						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFL (OFFLINE LIGHT LOADS)

TABLE: OFL- 2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0804	37.5
7	T12INT	4160	1	1.0882	4526.8	8	12A	4160	1	1.0856	4515.9
9	SST14	4160	1	1.0851	4514.1	10	SST18	4160	1	1.0851	4514.0
11	14	480	1	1.0663	511.8	12	18	480	1	1.0667	512.0
13	1C	480	1	1.0570	507.3	14	12B	4160	1	1.0858	4516.8
15	SST16	4160	1	1.0854	4515.3	16	SST17	4160	1	1.0853	4514.8
17	16	480	1	1.0698	513.5	18	17	480	1	1.0693	513.3
19	1D	480	1	1.0636	510.5	20	T11INT	4160	1	1.0857	4516.4
21	11A	4160	1	1.0856	4515.9	22	11B	4160	1	1.0858	4516.8
23	SST13	4160	1	1.0855	4515.6	24	SST15	4160	1	1.0857	4516.4
25	13	480	1	1.0647	511.1	26	15	480	1	1.0650	511.2
27	751	34.5	1	1.0960	37.8						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

BASE CASE: ONTS-1

**OPERATING MODE: (1) ONLINE X OFFLINE**

(2) SAFETY BUSES:

LIGHT LOAD

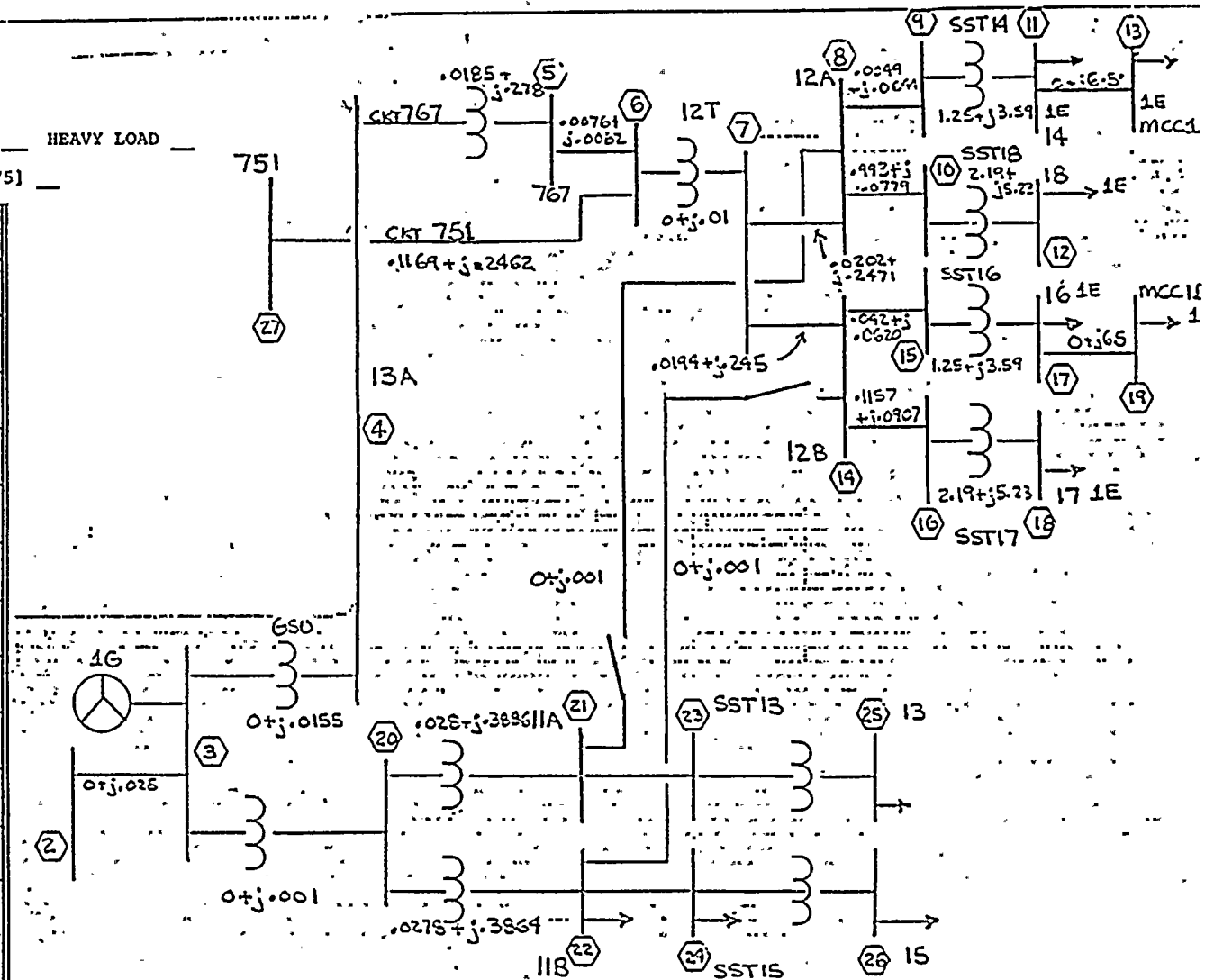
**NORMAL LOAD**

## HEAVY LOAD

(3) INSERVICE OFFSITE SOURCE:

CIRCUIT 767      CIRCUIT 75]

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.9	.7
5	0	0	18	.5	.4
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	10	7.5
9	0	0	22	10	7.5
10	0	0	23	0	0
11	.9	.7	24	0	0
12	.3	.2	25	.5	.4
13	.3	.2	26	.6	.5
14	0	0	27	0	0





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9833	33.9	6	12T	34.5	1	0.9829	33.9
7	T12INT	4160	1	0.9826	4087.6	8	12A	4160	1	0.9784	4070.1
9	SST14	4160	1	0.9769	4064.1	10	SST18	4160	1	0.9779	4068.1
11	14	480	1	0.9127	438.1	12	18	480	1	0.9601	460.9
13	1C	480	1	0.8778	421.3	14	12B	4160	1	0.9788	4072.0
15	SST16	4160	1	0.9778	4067.5	16	SST17	4160	1	0.9779	4067.9
17	16	480	1	0.9295	446.1	18	17	480	1	0.9439	453.1
19	1D	480	1	0.9187	441.0	20	T11INT	4160	1	1.0344	4303.3
21	11A	4160	1	1.0000	4159.9	22	11B	4160	1	0.9997	4158.8
23	SST13	4160	1	0.9799	4159.4	24	SST15	4160	1	0.9995	4158.1
25	13	480	1	0.9667	464.0	26	15	480	1	0.9583	460.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9841	34.0	6	12T	34.5	1	0.9837	33.9
7	T12INT	4160	1	0.9835	4091.2	8	12A	4160	1	0.9800	4076.8
9	SST14	4160	1	0.9788	4071.6	10	SST18	4160	1	0.9795	4074.8
11	14	480	1	0.9255	444.3	12	18	480	1	0.9618	461.6
13	1C	480	1	0.9091	436.3	14	12B	4160	1	0.9797	4075.7
15	SST16	4160	1	0.9786	4071.1	16	SST17	4160	1	0.9787	4071.5
17	16	480	1	0.9304	446.6	18	17	480	1	0.9448	453.5
19	1D	480	1	0.9197	441.4	20	T11INT	4160	1	1.0344	4303.3
21	11A	4160	1	1.0000	4159.9	22	11B	4160	1	0.9997	4158.8
23	SST13	4160	1	0.9999	4159.4	24	SST15	4160	1	0.9995	4158.1
25	13	480	1	0.9667	464.0	26	15	480	1	0.9583	460.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVI

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS-1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0261	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0010	34.5	6	12T	34.5	1	1.0006	34.5
7	T12INT	4160	1	1.0003	4161.3	8	12A	4160	1	0.9962	4144.1
9	SST14	4160	1	0.9948	4138.2	10	SST18	4160	1	0.9957	4142.2
11	14	480	1	0.9313	447.0	12	18	480	1	0.9782	469.6
13	1C	480	1	0.8963	430.2	14	12B	4160	1	0.9967	4146.1
15	SST16	4160	1	0.9956	4141.7	16	SST17	4160	1	0.9957	4142.0
17	16	480	1	0.9483	455.2	18	17	480	1	0.9624	462.0
19	1D	480	1	0.9378	450.1	20	T11INT	4160	1	1.0522	4377.3
21	11A	4160	1	1.0184	4236.7	22	11B	4160	1	1.0102	4235.5
23	SST13	4160	1	1.0183	4236.2	24	SST15	4160	1	1.0100	4234.8
25	13	480	1	0.9858	473.2	26	15	480	1	0.9776	469.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS-1-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	IG	19.0	1	1.0261	19.5	4	13A	115	1	1.0350	119.0
5	267	34.5	1	1.0019	34.6	6	12T	34.5	1	1.0015	34.6
7	T12INT	4160	1	1.0012	4165.0	8	12A	4160	1	0.9978	4150.9
9	SST14	4160	1	0.9966	4145.8	10	SST18	4160	1	0.9974	4149.0
11	14	480	1	0.9444	453.3	12	18	480	1	0.9799	470.4
13	1C	480	1	0.9282	445.5	14	12B	4160	1	0.9975	4149.8
15	SST16	4160	1	0.9965	4145.4	16	SST17	4160	1	0.9966	4145.7
17	16	480	1	0.9492	455.6	18	17	480	1	0.9633	462.4
19	1D	480	1	0.9387	450.6	20	T11INT	4160	1	1.0522	4377.3
21	11A	4160	1	1.0184	4236.7	22	11B	4160	1	1.0182	4235.5
23	SST13	4160	1	1.0183	4236.2	24	SST15	4160	1	1.0180	4234.8
25	13	480	1	0.9858	473.2	26	15	480	1	0.9776	469.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVIT

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0511	20.0	4	13A	115	1	1.0310	122.0
5	767	34.5	1	1.0266	35.4	6	12T	34.5	1	1.0262	35.4
7	T12INT	4160	1	1.0259	4267.8	8	12A	4160	1	1.0218	4250.9
9	SST14	4160	1	1.0204	4245.0	10	SST18	4160	1	1.0214	4249.0
11	14	480	1	0.9582	459.9	12	18	480	1	1.0044	482.1
13	1C	480	1	0.9230	443.0	14	12B	4160	1	1.0223	4253.0
15	SST16	4160	1	1.0213	4248.6	16	SST17	4160	1	1.0214	4249.0
17	16	480	1	0.9753	468.2	18	17	480	1	0.9890	474.7
19	1D	480	1	0.9651	463.3	20	T11INT	4160	1	1.0779	4484.2
21	11A	4160	1	1.0450	4347.3	22	11B	4160	1	1.0448	4346.2
23	SST13	4160	1	1.0449	4346.8	24	SST15	4160	1	1.0446	4345.6
25	13	480	1	1.0133	486.4	26	15	480	1	1.0053	482.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0511	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0275	35.4	6	12T	34.5	1	1.0271	35.4
7	T12INT	4160	1	1.0268	4271.6	8	12A	4160	1	1.0235	4257.9
9	SST14	4160	1	1.0223	4253.0	10	SST18	4160	1	1.0231	4256.0
11	14	480	1	0.9716	466.4	12	18	480	1	1.0061	482.9
13	1C	480	1	0.9558	458.8	14	12B	4160	1	1.0233	4256.9
15	SST16	4160	1	1.0222	4252.5	16	SST17	4160	1	1.0223	4252.9
17	16	480	1	0.9763	468.6	18	17	480	1	0.9700	475.2
19	1D	480	1	0.9661	463.7	20	T11INT	4160	1	1.0779	4484.2
21	11A	4160	1	1.0450	4347.3	22	11B	4160	1	1.0448	4346.2
23	SST13	4160	1	1.0449	4346.8	24	SST15	4160	1	1.0446	4345.5
25	13	480	1	1.0133	486.4	26	15	480	1	1.0053	482.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3 1G		19.0	1	1.0087	19.2	4 13A		115	1	1.0170	117.0
5 767		34.5	1	0.9783	33.8	6 12T		34.5	1	0.9777	33.7
7 T12INT		4160	1	0.9773	4065.4	8 12A		4160	1	0.9686	4029.5
9 SST14		4160	1	0.9658	4017.9	10 SST18		4160	1	0.9681	4027.5
11 14		480	1	0.8330	399.8	12 18		480	1	0.9501	456.1
13 1C		480	1	0.8166	392.0	14 12B		4160	1	0.9735	4049.7
15 SST13		4160	1	0.9724	4045.2	16 SST17		4160	1	0.9725	4045.6
17 16		480	1	0.9238	443.4	18 17		480	1	0.9383	450.4
19 1D		480	1	0.9130	438.2	20 T11INT		4160	1	1.0344	4303.3
21 11A		4160	1	1.0000	4160.0	22 11B		4160	1	0.9997	4158.8
23 SST13		4160	1	0.9999	4159.4	24 SST15		4160	1	0.9995	4158.1
25 13		480	1	0.9667	464.0	26 15		480	1	0.9583	460.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9835	33.7	6	12T	34.5	1	0.9831	33.9
7	T12INT	4160	1	0.9828	4088.5	8	12A	4160	1	0.9788	4071.9
9	SST14	4160	1	0.9774	4065.0	10	SST18	4160	1	0.9784	4070.0
11	14	480	1	0.9146	439.0	12	18	480	1	0.9606	461.1
13	1C	480	1	0.8998	431.9	14	12B	4160	1	0.9791	4073.0
15	SST16	4160	1	0.9780	4068.4	16	SST17	4160	1	0.9781	4068.8
17	16	480	1	0.9297	446.3	18	17	480	1	0.9442	453.2
19	1D	480	1	0.9190	441.1	20	T11INT	4160	1	1.0344	4303.3
21	11A	4160	1	1.0000	4159.9	22	11B	4160	1	0.9997	4158.8
23	SST13	4160	1	0.9999	4159.4	24	SST15	4160	1	0.9995	4158.1
25	13	480	1	0.9667	464.0	26	15	480	1	0.9583	460.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0261	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	0.9959	34.4	6	12T	34.5	1	0.9954	34.3
7	T12INT	4160	1	0.9949	4138.8	8	12A	4160	1	0.9862	4102.8
9	SST14	4160	1	0.9835	4091.2	10	SST18	4160	1	0.9858	4100.8
11	14	400	1	0.8503	408.1	12	18	400	1	0.9681	464.7
13	1C	480	1	0.8343	400.4	14	12B	4160	1	0.9912	4123.4
15	SST16	4160	1	0.9701	4119.0	16	SST17	4160	1	0.9702	4119.3
17	16	400	1	0.9425	452.4	18	17	400	1	0.9568	459.2
19	1D	400	1	0.9320	447.3	20	T11INT	4160	1	1.0522	4377.3
21	11A	4160	1	1.0184	4236.7	22	11B	4160	1	1.0182	4235.5
23	SST13	4160	1	1.0183	4236.2	24	SST15	4160	1	1.0160	4234.8
25	13	480	1	0.9858	473.2	26	15	480	1	0.9776	469.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-5A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3 16		1970	1	1.0261	197.5	4 13A		115	1	1.0350	119.0
5 767		34.5	1	1.0013	34.5	6 12T		34.5	1	1.0000	34.5
7 T12INT		4160	1	1.0006	4162.3	8 12A		4160	1	0.9966	4146.0
9 SST14		4160	1	0.9952	4139.9	10 SST18		4160	1	0.9962	4144.1
11 14		480	1	0.9333	448.0	12 18		480	1	0.9787	469.8
13 1C		480	1	0.9189	441.1	14 12B		4160	1	0.9969	4147.1
15 SST16		4160	1	0.9958	4142.6	16 SST17		4160	1	0.9959	4143.0
17 16		480	1	0.9485	455.3	18 17		480	1	0.9626	462.1
19 1D		480	1	0.9380	450.3	20 T11INT		4160	1	1.0522	4377.3
21 11A		4160	1	1.0184	4236.7	22 11B		4160	1	1.0182	4235.5
23 SST13		4160	1	1.0103	4236.2	24 SST15		4160	1	1.0180	4234.8
25 13		480	1	0.9858	473.2	26 15		480	1	0.9776	469.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-6

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0511	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0214	35.2	6	12T	34.5	1	1.0208	35.2
7	T12INT	4160	1	1.0204	4244.7	8	12A	4160	1	1.0117	4208.5
9	SST14	4160	1	1.0089	4196.9	10	SST18	4160	1	1.0112	4206.6
11	14	480	1	0.8751	420.0	12	18	480	1	0.9940	477.1
13	1C	480	1	0.8596	412.6	14	12B	4160	1	1.0168	4229.8
15	SST13	4160	1	1.0157	4225.4	16	SST17	4160	1	1.0158	4225.8
17	16	480	1	0.9695	465.3	18	17	480	1	0.9833	472.0
19	1B	480	1	0.9592	460.4	20	T11INT	4160	1	1.0779	4484.2
21	11A	4160	1	1.0450	4347.3	22	11B	4160	1	1.0448	4346.2
23	SST13	4160	1	1.0449	4346.8	24	SST15	4160	1	1.0446	4345.5
25	13	480	1	1.0133	486.4	26	15	480	1	1.0053	482.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-6A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0511	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0269	35.4	6	12T	34.5	1	1.0264	35.4
7	T12INT	4160	1	1.0262	4268.8	8	12A	4160	1	1.0223	4252.8
9	SST14	4160	1	1.0209	4246.9	10	SST18	4160	1	1.0219	4251.0
11	14	480	1	0.9602	460.9	12	18	480	1	1.0049	482.3
13	1C	480	1	0.9462	454.2	14	12D	4160	1	1.0226	4254.0
15	SST16	4160	1	1.0213	4249.7	16	SST17	4160	1	1.0217	4250.1
17	16	480	1	0.9756	468.3	18	17	480	1	0.9893	474.9
19	1D	480	1	0.9654	463.4	20	T11INT	4160	1	1.0779	4484.2
21	11A	4160	1	1.0450	4347.3	22	11B	4160	1	1.0448	4346.2
23	SST13	4160	1	1.0449	4346.8	24	SST15	4160	1	1.0446	4345.5
25	13	480	1	1.0133	486.4	26	15	480	1	1.0053	482.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 SINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-7

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0047	19.1	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9842	34.0	6	12T	34.5	1	0.9838	33.9
7	T12INT	4160	1	0.9836	4091.7	8	12A	4160	1	0.9802	4077.6
9	SST14	4160	1	0.9790	4072.6	10	SST18	4160	1	0.9797	4075.7
11	14	480	1	0.9274	445.2	12	18	480	1	0.9620	461.7
13	1C	480	1	0.9128	438.2	14	12B	4160	1	0.9798	4076.1
15	SST13	4160	1	0.9787	4071.6	16	SST17	4160	1	0.9788	4072.0
17	16	480	1	0.9305	446.6	18	17	480	1	0.9449	453.6
19	1D	480	1	0.9198	441.5	20	T11INT	4160	1	1.0300	4284.8
21	11A	4160	1	0.8890	3698.2	22	11B	4160	1	0.9951	4139.7
23	SST13	4160	1	0.8889	3697.6	24	SST15	4160	1	0.9949	4139.0
25	13	480	1	0.8512	408.6	26	15	480	1	0.9535	457.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-7A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0088	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9842	34.0	6	12T	34.5	1	0.9838	33.9
7	T12INT	4160	1	0.9836	4091.7	8	12A	4160	1	0.9802	4077.7
9	SST14	4160	1	0.9790	4072.6	10	SST18	4160	1	0.9797	4075.7
11	14	480	1	0.9274	445.2	12	18	480	1	0.9620	461.7
13	1C	480	1	0.9128	438.2	14	12B	4160	1	0.9798	4076.1
15	SST16	4160	1	0.9788	4071.6	16	SST17	4160	1	0.9788	4072.0
17	16	480	1	0.9305	446.6	18	17	480	1	0.9449	453.6
19	1D	480	1	0.9198	441.5	20	T11INT	4160	1	1.0345	4303.6
21	11A	4160	1	1.0017	4166.9	22	11B	4160	1	0.9998	4159.1
23	SST13	4160	1	1.0015	4166.4	24	SST15	4160	1	0.9996	4158.4
25	13	480	1	0.9685	464.9	26	15	480	1	0.9584	460.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM-- PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-8

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	10	19.0	1	1.0219	19.4	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0020	34.6	6	12T	34.5	1	1.0016	34.6
7	T12INT	4160	1	1.0013	4165.5	8	12A	4160	1	0.9980	4151.8
9	SST14	4160	1	0.9968	4146.9	10	SST18	4160	1	0.9976	4149.9
11	14	480	1	0.9463	454.2	12	18	480	1	0.9801	470.5
13	1C	480	1	0.9320	447.4	14	12B	4160	1	0.9977	4150.3
15	SST16	4160	1	0.9966	4145.9	16	SST17	4160	1	0.9967	4146.2
17	16	480	1	0.9493	455.7	18	17	480	1	0.9634	462.5
19	1D	480	1	0.9389	450.6	20	T11INT	4160	1	1.0477	4358.4
21	11A	4160	1	0.9049	3764.3	22	11B	4160	1	1.0135	4216.0
23	SST13	4160	1	0.9047	3763.7	24	SST15	4160	1	1.0133	4215.3
25	13	480	1	0.8678	416.5	26	15	480	1	0.9727	466.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-8A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0261	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0020	34.6	6	12T	34.5	1	1.0016	34.6
7	T12INT	4160	1	1.0013	4165.5	8	12A	4160	1	0.9980	4151.8
9	SST14	4160	1	0.9768	4146.8	10	SST18	4160	1	0.9976	4149.8
11	14	480	1	0.9463	454.2	12	18	480	1	0.9801	470.5
13	1C	480	1	0.9320	447.4	14	12B	4160	1	0.9977	4150.3
15	SST16	4160	1	0.9966	4145.8	16	SST17	4160	1	0.9967	4146.2
17	16	480	1	0.9493	455.7	18	17	480	1	0.9634	462.5
19	1D	480	1	0.9380	450.6	20	T11INT	4160	1	1.0523	4377.4
21	11A	4160	1	1.0195	4240.9	22	11B	4160	1	1.0182	4235.7
23	SST13	4160	1	1.0193	4240.4	24	SST15	4160	1	1.0180	4235.0
25	13	480	1	0.9869	473.7	26	15	480	1	0.9776	469.3

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-9

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0469	19.9	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0276	35.5	6	12T	34.5	1	1.0272	35.4
7	T12INT	4160	1	1.0269	4272.0	8	12A	4160	1	1.0237	4258.7
9	SST14	4160	1	1.0226	4253.9	10	SST19	4160	1	1.0233	4256.8
11	14	480	1	0.9735	467.3	12	18	480	1	1.0063	483.0
13	1C	480	1	0.9597	460.6	14	12R	4160	1	1.0234	4257.2
15	SST16	4160	1	1.0223	4252.9	16	SST17	4160	1	1.0224	4253.3
17	16	480	1	0.9764	468.7	18	17	480	1	0.9901	475.2
19	1D	480	1	0.9662	463.8	20	T11INT	4160	1	1.0732	4464.7
21	11A	4160	1	0.9278	3859.6	22	11B	4160	1	1.0399	4326.1
23	SST13	4160	1	0.9276	3859.0	24	SST15	4160	1	1.0398	4325.4
25	13	480	1	0.8917	428.0	26	15	480	1	1.0003	480.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 1-9A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0511	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0276	35.5	6	12T	34.5	1	1.0272	35.4
7	T12INT	4160	1	1.0269	4272.0	8	12A	4160	1	1.0237	4258.7
9	SST14	4160	1	1.0226	4253.9	10	SST18	4160	1	1.0233	4256.8
11	14	480	1	0.9735	467.3	12	18	480	1	1.0063	483.0
13	1C	480	1	0.9597	460.6	14	12B	4160	1	1.0234	4257.3
15	SST16	4160	1	1.0223	4252.9	16	SST17	4160	1	1.0224	4253.3
17	16	480	1	0.9764	468.7	18	17	480	1	0.9901	475.2
19	1D	480	1	0.9662	463.8	20	T11INT	4160	1	1.0779	4484.2
21	11A	4160	1	1.0451	4347.8	22	11B	4160	1	1.0448	4346.2
23	SST13	4160	1	1.0450	4347.3	24	SST15	4160	1	1.0446	4345.6
25	13	480	1	1.0134	486.5	26	15	480	1	1.0053	482.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

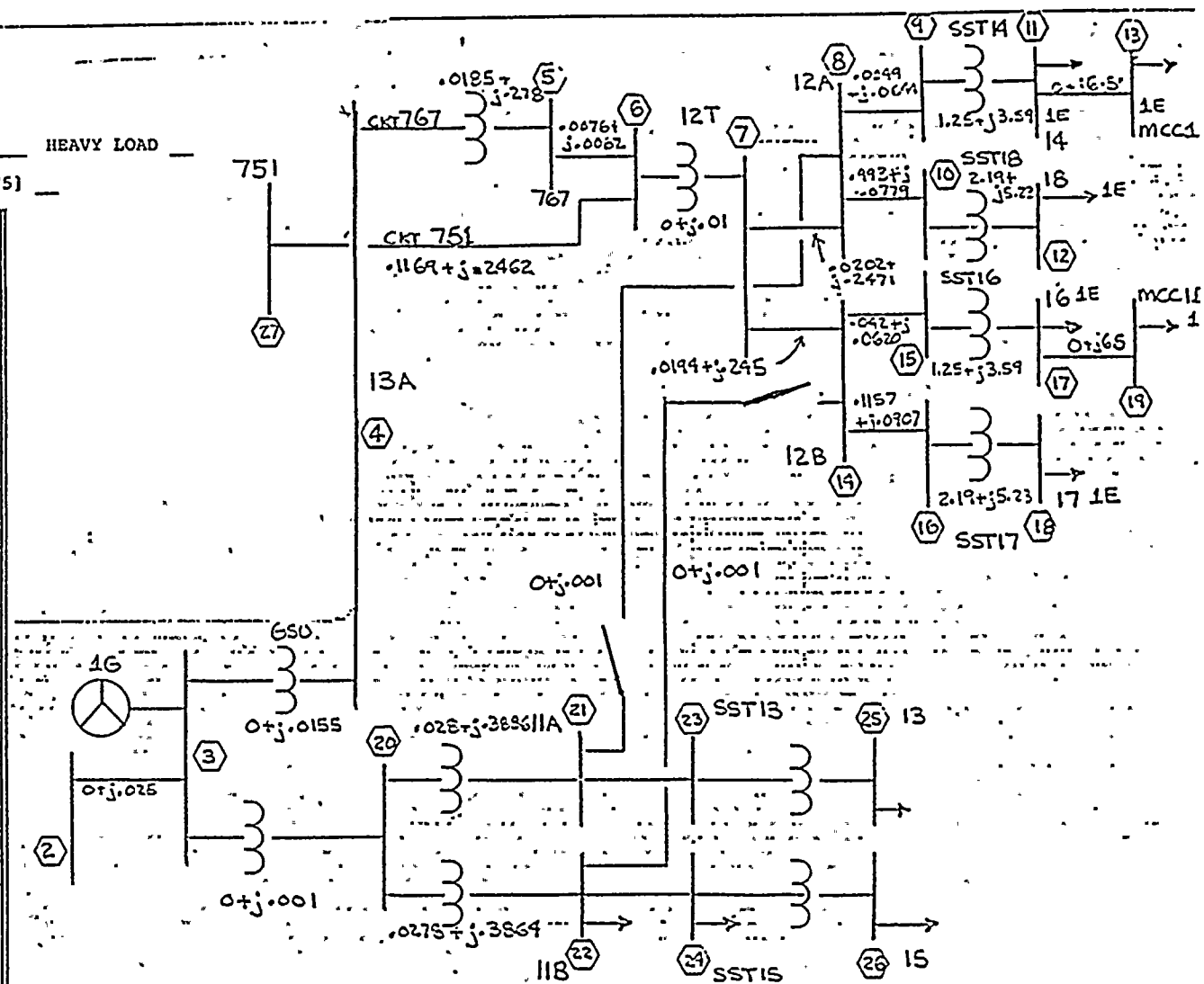
ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

BASE CASE: ONTS-2

OPERATING MODE: (1) ONLINE ☒ OFFLINE \_\_\_\_\_  
(2) SAFETY BUSES:  
LIGHT LOAD \_\_\_\_\_ NORMAL LOAD \_\_\_\_\_ HEAVY LOAD \_\_\_\_\_  
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767 \_\_\_\_\_ CIRCUIT 751 \_\_\_\_\_

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.9	.7
5	0	0	18	.5	.4
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	10	7.5
9	0	0	22	10	7.5
10	0	0	23	0	0
11	.9	.7	24	0	0
12	.3	.2	25	.5	.4
13	.3	.2	26	.6	.5
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9505	32.8	7	T12INT	4160	1	0.9502	3952.7
8	12A	4160	1	0.9459	3934.8	9	SST14	4160	1	0.9444	3928.6
10	SST18	4160	1	0.9454	3932.8	11	14	480	1	0.8784	421.7
12	18	480	1	0.9239	444.9	13	1C	480	1	0.8437	405.0
14	12B	4160	1	0.9463	3936.6	15	SST16	4160	1	0.9452	3931.8
16	SST17	4160	1	0.9453	3932.2	17	16	480	1	0.8949	429.6
18	17	480	1	0.9100	436.8	19	1D	480	1	0.8838	424.2
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9512	32.8	7	T12INT	4160	1	0.9509	3955.9
8	12A	4160	1	0.9473	3941.0	9	SST14	4160	1	0.9461	3935.6
10	SST18	4160	1	0.9469	3938.9	11	14	480	1	0.8908	427.6
12	18	480	1	0.9284	445.7	13	1C	480	1	0.8738	419.4
14	12B	4160	1	0.9471	3939.8	15	SST16	4160	1	0.9459	3935.1
16	SST17	4160	1	0.9460	3935.5	17	16	480	1	0.8958	430.0
18	17	480	1	0.9108	437.2	19	1D	480	1	0.8846	424.6
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11D	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.5
24	SST15	4160	1	0.9995	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9889	34.1	7	T12INT	4160	1	0.9886	4112.7
8	12A	4160	1	0.9845	4095.4	9	SST14	4160	1	0.9830	4089.3
10	SST18	4160	1	0.9840	4093.4	11	14	480	1	0.9191	441.1
12	18	480	1	0.7663	463.8	13	1C	480	1	0.8841	424.4
14	12B	4160	1	0.9349	4097.3	15	SST16	4160	1	0.9838	4092.8
16	SST17	4160	1	0.9839	4093.2	17	13	480	1	0.9359	449.2
18	17	480	1	0.9502	456.1	19	1D	480	1	0.9252	444.1
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.0	25	13	480	1	0.9367	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	18	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9897	34.1	7	T12INT	4160	1	0.9894	4116.1
8	12A	4160	1	0.9860	4101.8	9	SST14	4160	1	0.9848	4096.6
10	SST18	4160	1	0.9855	4099.8	11	14	480	1	0.9319	447.3
12	18	480	1	0.9679	464.6	13	1C	480	1	0.9155	439.4
14	12B	4160	1	0.9857	4100.7	15	SST16	4160	1	0.9847	4096.2
16	SST17	4160	1	0.9847	4096.5	17	16	480	1	0.9367	449.6
18	17	480	1	0.9511	456.5	19	1D	480	1	0.9261	444.5
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4159.9
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0182	35.1	7	T12INT	4160	1	1.0180	4234.7
8	12A	4160	1	1.0137	4217.7	9	SST14	4160	1	1.0125	4211.9
10	SST18	4160	1	1.0134	4215.8	11	14	480	1	0.9498	455.9
12	18	480	1	0.9963	478.2	13	1C	480	1	0.9148	439.1
14	12B	4160	1	1.0144	4219.8	15	SST16	4160	1	1.0133	4215.4
16	SST17	4160	1	1.0134	4215.8	17	16	480	1	0.9669	464.1
18	17	480	1	0.9808	470.8	19	1D	480	1	0.9567	459.2
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.0	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GIKNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0190	35.2	7	T12INT	4160	1	1.0188	4238.1
8	12A	4160	1	1.0155	4224.3	9	SST14	4160	1	1.0143	4219.3
10	SST18	4160	1	1.0150	4222.4	11	14	480	1	0.9631	462.3
12	18	480	1	0.9979	479.0	13	1C	480	1	0.9471	454.6
14	12B	4160	1	1.0152	4223.2	15	SST16	4160	1	1.0141	4219.9
16	SST17	4160	1	1.0142	4219.2	17	16	480	1	0.9678	464.5
18	17	480	1	0.9816	471.2	19	1D	480	1	0.9575	459.6
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.5
24	SST15	4160	1	0.9995	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-4

USES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9458	32.6	7	T12INT	4160	1	0.9453	3932.5
8	12A	4160	1	0.9367	3896.7	9	SST14	4160	1	0.9339	3885.1
10	SST18	4160	1	0.9362	3894.6	11	14	480	1	0.8016	384.8
12	18	480	1	0.9176	440.4	13	1C	480	1	0.7845	376.6
14	12B	4160	1	0.9414	3916.2	15	SST16	4160	1	0.9402	3911.4
16	SST17	4160	1	0.9403	3911.8	17	16	480	1	0.8897	427.1
18	17	480	1	0.9049	434.4	19	1D	480	1	0.8785	421.7
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.1	25	13	400	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9505	32.8	7	T12INT	4160	1	0.9502	3952.8
8	12A	4160	1	0.9461	3935.7	9	SST14	4160	1	0.9446	3929.4
10	SST18	4160	1	0.9456	3933.7	11	14	480	1	0.8801	422.5
12	13	430	1	0.9272	445.0	13	1C	480	1	0.8647	415.1
14	12B	4160	1	0.9463	3936.6	15	SST16	4160	1	0.9452	3931.9
16	SST17	4160	1	0.9453	3932.3	17	16	480	1	0.8950	429.6
18	17	480	1	0.9101	436.8	19	1D	480	1	0.8838	424.2
20	T11INT	4160	1	1.0344	4303.2	21	11A	4160	1	1.0000	4159.9
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9799	4159.4
24	SST15	4160	1	0.9995	4158.0	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS-2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	17.0	1	1.0087	17.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9841	33.9	7	T12INT	4160	1	0.9836	4091.7
8	12A	4160	1	0.9749	4055.7	9	SST14	4160	1	0.9722	4044.2
10	SST18	4160	1	0.9745	4053.8	11	14	480	1	0.8392	402.8
12	18	480	1	0.9566	459.2	13	1C	480	1	0.8230	395.0
14	12B	4160	1	0.9798	4076.1	15	SST16	4160	1	0.9788	4071.6
16	SST17	4160	1	0.9788	4072.0	17	16	480	1	0.9305	446.6
18	17	480	1	0.9447	453.6	19	1D	480	1	0.9198	441.5
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4159.9
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9795	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-5A

USES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9890	34.1	7	T12INT	4160	1	0.9887	4112.9
8	12A	4160	1	0.9847	4096.4	9	SST14	4160	1	0.9832	4090.3
10	SST18	4160	1	0.9842	4094.4	11	14	480	1	0.9208	442.0
12	18	480	1	0.9665	463.9	13	1C	480	1	0.9061	434.9
14	12B	4160	1	0.9850	4097.4	15	SST16	4160	1	0.9839	4092.9
16	SST17	4160	1	0.9840	4093.3	17	16	480	1	0.9359	449.2
18	17	480	1	0.9503	456.1	19	1B	480	1	0.9253	444.1
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-6

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0132	35.0	7	T12INT	4160	1	1.0127	4213.0
8	12A	4160	1	1.0041	4176.9	9	SST14	4160	1	1.0013	4165.4
10	SST18	4160	1	1.0036	4175.0	11	14	480	1	0.9677	416.5
12	18	480	1	0.9863	473.4	13	1C	480	1	0.8520	409.0
14	12B	4160	1	1.0091	4198.0	15	SST16	4160	1	1.0081	4193.6
16	SST17	4160	1	1.0082	4194.0	17	16	480	1	0.9614	461.5
18	17	480	1	0.9753	468.2	19	1D	480	1	0.9511	456.5
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4159.9
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTS (ONLINE TRANSIENT STARTUP LOADS) TABLE: ONTS- 2-6A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0087	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0183	35.1	7	T12INT	4160	1	1.0180	4234.9
8	12A	4160	1	1.0141	4218.8	9	SST14	4160	1	1.0127	4212.8
10	SST18	4160	1	1.0137	4216.9	11	14	480	1	0.9517	456.8
12	18	480	1	0.9965	478.3	13	1C	480	1	0.9375	450.0
14	12B	4160	1	1.0144	4219.9	15	SST16	4160	1	1.0134	4215.6
16	SST17	4160	1	1.0134	4215.9	17	16	480	1	0.9670	464.2
18	17	480	1	0.9808	470.8	19	1D	480	1	0.9567	459.2
20	T11INT	4160	1	1.0344	4303.3	21	11A	4160	1	1.0000	4160.0
22	11B	4160	1	0.9997	4158.8	23	SST13	4160	1	0.9999	4159.4
24	SST15	4160	1	0.9995	4158.1	25	13	480	1	0.9667	464.0
26	15	480	1	0.9583	460.0	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.







P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9866	34.0	6	12T	34.5	1	0.9863	34.0
7	T12INT	4160	1	0.9862	4102.4	8	12A	4160	1	0.9835	4091.2
9	SST14	4160	1	0.9827	4087.9	10	SST18	4160	1	0.9830	4089.1
11	14	480	1	0.9472	454.6	12	18	480	1	0.9632	462.4
13	1C	480	1	0.9121	437.8	14	12B	4160	1	0.9838	4092.8
15	SST16	4160	1	0.9835	4091.2	16	SST17	4160	1	0.9826	4087.7
17	16	480	1	0.9668	464.1	18	17	480	1	0.9406	451.5
19	1D	480	1	0.9530	457.4	20	T11INT	4160	1	1.0342	4302.3
21	11A	4160	1	0.9930	4130.7	22	11B	4160	1	1.0001	4160.3
23	SST13	4160	1	0.9928	4130.1	24	SST15	4160	1	0.9999	4159.7
25	13	480	1	0.9513	456.6	26	15	480	1	0.9682	464.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 SINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9874	34.1	6	12T	34.5	1	0.9872	34.1
7	T12INT	4160	1	0.9870	4106.1	8	12A	4160	1	0.9851	4098.0
9	SST14	4160	1	0.9845	4095.6	10	SST18	4160	1	0.9846	4095.9
11	14	480	1	0.9600	460.8	12	18	480	1	0.9649	463.2
13	1C	480	1	0.9441	453.2	14	12B	4160	1	0.9847	4096.5
15	SST16	4160	1	0.9843	4094.9	16	SST17	4160	1	0.9835	4091.4
17	16	480	1	0.9678	464.5	18	17	480	1	0.9415	451.9
19	1D	480	1	0.9539	457.9	20	T11INT	4160	1	1.0342	4302.3
21	11A	4160	1	0.9930	4130.7	22	11B	4160	1	1.0001	4160.3
23	SST13	4160	1	0.9928	4130.1	24	SST15	4160	1	0.9979	4159.7
25	13	480	1	0.9513	456.6	26	15	480	1	0.9682	464.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



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P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0259	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0043	34.6	6	12T	34.5	1	1.0040	34.6
7	T12INT	4160	1	1.0038	4175.8	8	12A	4160	1	1.0011	4164.7
9	SST14	4160	1	1.0004	4161.5	10	SST18	4160	1	1.0006	4162.6
11	14	480	1	0.9651	463.2	12	18	480	1	0.9813	471.0
13	1C	480	1	0.9299	446.3	14	12B	4160	1	1.0015	4166.4
15	SST16	4160	1	1.0012	4164.8	16	SST17	4160	1	1.0003	4161.4
17	16	480	1	0.9849	472.7	18	17	480	1	0.9591	460.4
19	1D	480	1	0.9713	466.2	20	T11INT	4160	1	1.0520	4376.3
21	11A	4160	1	1.0116	4208.1	22	11B	4160	1	1.0185	4237.0
23	SST13	4160	1	1.0114	4207.4	24	SST15	4160	1	1.0184	4236.4
25	13	480	1	0.9707	465.9	26	15	480	1	0.9873	473.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



# P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E

## GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS

CASE ONTN (ONLINE TRANSIENT NORMAL LOADS)

TABLE: ONTN- 1-2A

### BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0259	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0051	34.7	6	12T	34.5	1	1.0048	34.7
7	T12INT	4160	1	1.0047	4179.5	8	12A	4160	1	1.0028	4171.6
9	SST14	4160	1	1.0022	4169.2	10	SST18	4160	1	1.0023	4169.5
11	14	480	1	0.9782	469.5	12	18	480	1	0.9830	471.8
13	1C	480	1	0.9624	462.0	14	12B	4160	1	1.0024	4170.1
15	SST16	4160	1	1.0021	4168.6	16	SST17	4160	1	1.0012	4165.1
17	16	480	1	0.9858	473.2	18	17	480	1	0.9601	460.8
19	1D	480	1	0.9722	466.7	20	T11INT	4160	1	1.0520	4376.3
21	11A	4160	1	1.0116	4208.1	22	11B	4160	1	1.0185	4237.0
23	SST13	4160	1	1.0114	4207.4	24	SST15	4160	1	1.0184	4236.4
25	13	480	1	0.9707	465.9	26	15	480	1	0.9873	473.9

### BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

### ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0509	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0297	35.5	6	12T	34.5	1	1.0295	35.5
7	T12INT	4160	1	1.0293	4281.8	8	12A	4160	1	1.0266	4270.8
9	SST14	4160	1	1.0259	4267.6	10	SST18	4160	1	1.0262	4268.8
11	14	480	1	0.9909	475.6	12	18	480	1	1.0073	483.5
13	1C	480	1	0.9555	458.6	14	12B	4160	1	1.0271	4272.6
15	SST16	4160	1	1.0267	4271.1	16	SST17	4160	1	1.0259	4267.8
17	16	480	1	1.0109	485.2	18	17	480	1	0.9859	473.2
19	1D	480	1	0.9976	478.9	20	T11INT	4160	1	1.0777	4483.3
21	11A	4160	1	1.0384	4319.6	22	11B	4160	1	1.0451	4347.6
23	SST13	4160	1	1.0382	4319.0	24	SST15	4160	1	1.0450	4347.1
25	13	480	1	0.9987	479.4	26	15	480	1	1.0147	487.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0509	20.0	4	13A	115	1	1.0210	122.0
5	767	34.5	1	1.0306	35.6	6	12T	34.5	1	1.0304	35.5
7	T12INT	4160	1	1.0302	4285.6	8	12A	4160	1	1.0283	4277.9
9	SST14	4160	1	1.0278	4275.5	10	SST18	4160	1	1.0278	4275.8
11	14	480	1	1.0043	482.1	12	18	480	1	1.0090	484.3
13	1C	480	1	0.9889	474.7	14	12D	4160	1	1.0280	4276.5
15	SST16	4160	1	1.0276	4275.0	16	SST17	4160	1	1.0268	4271.6
17	16	480	1	1.0118	485.7	18	17	480	1	0.9868	473.7
19	1B	480	1	0.9986	479.3	20	T11INT	4160	1	1.0777	4483.3
21	11A	4160	1	1.0384	4319.6	22	11B	4160	1	1.0451	4347.6
23	SST13	4160	1	1.0382	4319.0	24	SST15	4160	1	1.0450	4347.1
25	13	480	1	0.9987	479.4	26	15	480	1	1.0147	487.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINHA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9823	33.9	6	12T	34.5	1	0.9819	33.9
7	T12INT	4160	1	0.9815	4083.2	8	12A	4160	1	0.9750	4056.0
9	SST14	4160	1	0.9732	4048.4	10	SST18	4160	1	0.9745	4053.8
11	14	480	1	0.8808	422.8	12	18	480	1	0.9546	458.2
13	1C	480	1	0.8654	415.4	14	12B	4160	1	0.9792	4073.5
15	SST16	4160	1	0.9708	4071.9	16	SST17	4160	1	0.9780	4068.4
17	16	480	1	0.9621	461.8	18	17	480	1	0.9358	449.2
19	1D	480	1	0.9482	455.1	20	T11INT	4160	1	1.0342	4302.3
21	11A	4160	1	0.9930	4130.7	22	11B	4160	1	1.0001	4160.3
23	SST13	4160	1	0.9928	4130.1	24	SST15	4160	1	0.9999	4159.7
25	13	480	1	0.9513	456.6	26	15	480	1	0.9682	464.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3 10		197.0	1	1.0085	197.2	4 13A		115	1	1.0170	117.0
5 767		34.5	1	0.9875	34.1	6 12T		34.5	1	0.9873	34.1
7 T12INT		4160	1	0.9871	4106.4	8 12A		4160	1	0.9852	4078.5
9 SST14		4160	1	0.9847	4096.3	10 SST18		4160	1	0.9347	4096.4
11 14		480	1	0.9617	461.6	12 18		480	1	0.9650	463.2
13 1C		480	1	0.9477	454.9	14 12B		4160	1	0.9848	4096.7
15 SST16		4160	1	0.9844	4095.2	16 SST17		4160	1	0.9836	4091.7
17 16		480	1	0.9678	464.6	18 17		480	1	0.9416	452.0
19 1D		480	1	0.9540	457.7	20 T11INT		4160	1	1.0342	4302.3
21 11A		4160	1	0.9930	4130.7	22 11B		4160	1	1.0001	4160.3
23 SST13		4160	1	0.9928	4130.1	24 SST15		4160	1	0.9999	4159.7
25 13		480	1	0.9513	456.6	26 15		480	1	0.9682	464.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0259	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	0.9998	34.5	6	12T	34.5	1	0.9994	34.5
7	T12INT	4160	1	0.9991	4156.1	8	12A	4160	1	0.9925	4123.6
9	SST14	4160	1	0.9906	4120.9	10	SST18	4160	1	0.9919	4126.5
11	14	480	1	0.8970	430.6	12	18	480	1	0.9724	466.8
13	1C	480	1	0.8919	423.3	14	12B	4160	1	0.9968	4146.6
15	SST16	4160	1	0.9964	4145.1	16	SST17	4160	1	0.9956	4141.6
17	16	480	1	0.9800	470.4	18	17	480	1	0.9542	458.0
19	1D	480	1	0.9664	463.9	20	T11INT	4160	1	1.0520	4376.3
21	11A	4160	1	1.0116	4208.1	22	11B	4160	1	1.0185	4237.0
23	SST13	4160	1	1.0114	4207.4	24	SST15	4160	1	1.0184	4236.4
25	13	480	1	0.9707	465.9	26	15	480	1	0.9872	473.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-5A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0259	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0052	34.7	6	12T	34.5	1	1.0049	34.7
7	T12INT	4160	1	1.0040	4179.9	8	12A	4160	1	1.0029	4172.2
9	SST14	4160	1	1.0024	4170.0	10	SST18	4160	1	1.0024	4170.1
11	14	400	1	0.9790	470.3	12	18	400	1	0.9831	471.9
13	1C	480	1	0.9661	463.7	14	12B	4160	1	1.0025	4170.5
15	SST16	4160	1	1.0021	4168.9	16	SST17	4160	1	1.0013	4165.5
17	16	480	1	0.9859	473.2	18	17	480	1	0.9602	460.9
19	1D	480	1	0.9723	466.7	20	T11INT	4160	1	1.0520	4376.3
21	11A	4160	1	1.0116	4208.1	22	11D	4160	1	1.0185	4237.0
23	SST13	4160	1	1.0114	4207.4	24	SST15	4160	1	1.0184	4236.4
25	13	480	1	0.9707	465.9	26	15	480	1	0.9873	473.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-6

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3 1G		19.0	1	1.0509	20.0	4 13A		115	1	1.0610	122.0
5 767		34.5	1	1.0251	35.4	6 12T		34.5	1	1.0247	35.4
7 T12INT		4160	1	1.0244	4261.5	8 12A		4160	1	1.0177	4233.5
9 SST14		4160	1	1.0158	4225.7	10 SST18		4160	1	1.0172	4231.5
11 14		480	1	0.9204	441.8	12 18		480	1	0.9982	479.1
13 1C		480	1	0.9057	434.7	14 12B		4160	1	1.0222	4252.2
15 SST16		4160	1	1.0218	4250.7	16 SST17		4160	1	1.0210	4247.4
17 16		480	1	1.0059	482.8	18 17		480	1	0.9807	470.8
19 1D		480	1	0.9926	476.4	20 T11INT		4160	1	1.0777	4483.3
21 11A		4160	1	1.0384	4319.6	22 11B		4160	1	1.0451	4347.6
23 SST13		4160	1	1.0382	4319.0	24 SST15		4160	1	1.0450	4347.1
25 13		480	1	0.9987	479.4	26 15		480	1	1.0147	487.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-6A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0509	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0307	35.6	6	12T	34.5	1	1.0304	35.6
7	T12INT	4160	1	1.0303	4286.0	8	12A	4160	1	1.0285	4278.5
9	SST14	4160	1	1.0280	4276.4	10	SST18	4160	1	1.0280	4276.5
11	14	480	1	1.0060	482.9	12	18	480	1	1.0092	484.4
13	1C	480	1	0.9926	476.5	14	12B	4160	1	1.0281	4276.8
15	SST16	4160	1	1.0277	4275.3	16	SST17	4160	1	1.0269	4272.0
17	16	480	1	1.0119	485.7	18	17	480	1	0.9869	473.7
19	1D	480	1	0.9987	479.4	20	T11INT	4160	1	1.0777	4403.3
21	11A	4160	1	1.0384	4319.6	22	11D	4160	1	1.0451	4347.7
23	SST13	4160	1	1.0382	4319.0	24	SST15	4160	1	1.0450	4347.1
25	13	480	1	0.9987	479.4	26	15	480	1	1.0147	487.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-7

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	17.0	1	1.0044	17.1	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9875	34.1	6	12T	34.5	1	0.9873	34.1
7	T12INT	4160	1	0.9871	4106.4	8	12A	4160	1	0.9852	4098.5
9	SST14	4160	1	0.9847	4096.3	10	SST18	4160	1	0.9847	4096.4
11	14	480	1	0.9617	461.6	12	18	480	1	0.9650	463.2
13	1C	480	1	0.9477	454.9	14	12B	4160	1	0.9840	4096.8
15	SST16	4160	1	0.9844	4095.2	16	SST17	4160	1	0.9836	4091.7
17	16	480	1	0.9678	464.6	18	17	480	1	0.9416	452.0
19	1B	480	1	0.9540	457.9	20	T11INT	4160	1	1.0297	4283.6
21	11A	4160	1	0.8807	3663.8	22	11B	4160	1	0.9954	4140.9
23	SST13	4160	1	0.8805	3663.0	24	SST15	4160	1	0.9953	4140.3
25	13	480	1	0.8330	399.9	26	15	480	1	0.9634	462.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-7A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9875	34.1	6	12T	34.5	1	0.9873	34.1
7	T12INT	4160	1	0.9871	4103.4	8	12A	4160	1	0.9852	4098.5
9	SST14	4160	1	0.9847	4096.3	10	SST18	4160	1	0.9847	4096.4
11	14	480	1	0.9617	461.6	12	18	480	1	0.9650	463.2
13	1C	480	1	0.9477	454.9	14	12B	4160	1	0.9848	4096.8
15	SST16	4160	1	0.9844	4095.2	16	SST17	4160	1	0.9836	4091.7
17	16	480	1	0.9678	464.6	18	17	480	1	0.9416	452.0
19	1B	480	1	0.9540	457.9	20	T11INT	4160	1	1.0342	4302.4
21	11A	4160	1	0.9934	4132.7	22	11B	4160	1	1.0001	4160.3
23	SST13	4160	1	0.9933	4132.1	24	SST15	4160	1	0.9999	4159.8
25	13	480	1	0.9518	456.9	26	15	480	1	0.9682	464.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-7B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	10	19.0	1	1.0091	19.2	4	13A	115	1	1.0170	117.0
5	767	34.5	1	0.9875	34.1	6	12T	34.5	1	0.9873	34.1
7	T12INT	4160	1	0.9871	4106.4	8	12A	4160	1	0.9852	4098.6
9	SST14	4160	1	0.9847	4096.3	10	SST18	4160	1	0.9847	4096.5
11	14	480	1	0.9617	461.6	12	18	480	1	0.9651	463.2
13	1C	480	1	0.9477	454.9	14	12B	4160	1	0.9848	4096.8
15	SST16	4160	1	0.9844	4095.2	16	SST17	4160	1	0.9836	4091.7
17	16	480	1	0.9678	464.6	18	17	480	1	0.9416	452.0
19	1D	480	1	0.9540	457.9	20	T11INT	4160	1	1.0348	4304.9
21	11A	4160	1	1.0104	4203.2	22	11B	4160	1	1.0007	4162.9
23	SST13	4160	1	1.0102	4202.5	24	SST15	4160	1	1.0006	4162.4
25	13	480	1	0.9695	465.3	26	15	480	1	0.9689	465.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 1-8

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0217	19.4	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0052	34.7	6	12T	34.5	1	1.0049	34.7
7	T12INT	4160	1	1.0048	4179.9	8	12A	4160	1	1.0029	4172.2
9	SST14	4160	1	1.0024	4170.0	10	SST18	4160	1	1.0024	4170.2
11	14	480	1	0.9799	470.3	12	18	480	1	0.9831	471.9
13	1C	480	1	0.9661	463.7	14	12D	4160	1	1.0025	4170.5
15	SST16	4160	1	1.0021	4168.9	16	SST17	4160	1	1.0013	4165.5
17	16	480	1	0.9859	473.2	18	17	480	1	0.9602	460.9
19	1D	480	1	0.9723	466.7	20	T11INT	4160	1	1.0474	4357.3
21	11A	4160	1	0.8967	3730.5	22	11B	4160	1	1.0138	4217.2
23	SST13	4160	1	0.8966	3729.7	24	SST15	4160	1	1.0136	4216.7
25	13	480	1	0.8500	408.0	26	15	480	1	0.9823	471.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-8A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0259	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0052	34.7	6	12T	34.5	1	1.0049	34.7
7	T12INT	4160	1	1.0048	4179.9	8	12A	4160	1	1.0029	4172.2
9	SST14	4160	1	1.0024	4170.0	10	SST18	4160	1	1.0024	4170.1
11	14	480	1	0.9799	470.3	12	18	480	1	0.9831	471.9
13	1C	480	1	0.9661	463.7	14	12B	4160	1	1.0025	4170.5
15	SST13	4160	1	1.0021	4168.9	16	SST17	4160	1	1.0013	4165.5
17	16	480	1	0.9859	473.2	18	17	480	1	0.9602	460.9
19	1D	480	1	0.9723	466.7	20	T11INT	4160	1	1.0520	4376.3
21	11A	4160	1	1.0114	4207.5	22	11B	4160	1	1.0185	4237.0
23	SST13	4160	1	1.0113	4206.8	24	SST15	4160	1	1.0184	4236.4
25	13	480	1	0.9706	465.9	26	15	480	1	0.9873	473.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-8B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0264	19.5	4	13A	115	1	1.0350	119.0
5	767	34.5	1	1.0052	34.7	6	12T	34.5	1	1.0049	34.7
7	T12INT	4160	1	1.0048	4179.9	8	12A	4160	1	1.0029	4172.2
9	SST14	4160	1	1.0024	4170.0	10	SST18	4160	1	1.0024	4170.2
11	14	480	1	0.9799	470.3	12	18	480	1	0.9831	471.9
13	1C	480	1	0.9661	463.7	14	12B	4160	1	1.0025	4170.5
15	SST16	4160	1	1.0021	4168.9	16	SST17	4160	1	1.0013	4165.5
17	16	480	1	0.9859	473.2	18	17	480	1	0.9602	460.9
19	1D	480	1	0.9723	466.7	20	T11INT	4160	1	1.0526	4378.9
21	11A	4160	1	1.0286	4279.0	22	11D	4160	1	1.0191	4239.7
23	SST13	4160	1	1.0285	4278.4	24	SST15	4160	1	1.0190	4239.1
25	13	480	1	0.9885	474.5	26	15	480	1	0.9879	474.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-9

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0466	19.9	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0307	35.6	6	12T	34.5	1	1.0304	35.5
7	T12INT	4160	1	1.0303	4286.0	8	12A	4160	1	1.0285	4278.5
9	SST14	4160	1	1.0280	4276.4	10	SST10	4160	1	1.0280	4276.5
11	14	480	1	1.0060	482.9	12	18	480	1	1.0092	484.4
13	1C	480	1	0.9926	476.5	14	12B	4160	1	1.0281	4276.8
15	SST16	4160	1	1.0277	4275.3	16	SST17	4160	1	1.0269	4272.0
17	16	480	1	1.0119	485.7	18	17	480	1	0.9869	473.7
19	1D	480	1	0.9987	479.4	20	T11INT	4160	1	1.0730	4463.6
21	11A	4160	1	0.9199	3826.7	22	11B	4160	1	1.0402	4327.3
23	SST13	4160	1	0.9197	3826.0	24	SST15	4160	1	1.0401	4326.7
25	13	480	1	0.8745	419.8	26	15	480	1	1.0097	484.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-1-9A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0509	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0307	35.6	6	12T	34.5	1	1.0304	35.6
7	T12INT	4160	1	1.0303	4286.0	8	12A	4160	1	1.0285	4278.5
9	SST14	4160	1	1.0280	4276.4	10	SST18	4160	1	1.0280	4276.5
11	14	480	1	1.0060	482.9	12	18	480	1	1.0092	484.4
13	1C	480	1	0.9926	476.5	14	12B	4160	1	1.0281	4276.8
15	SST16	4160	1	1.0277	4275.3	16	SST17	4160	1	1.0269	4272.0
17	16	480	1	1.0119	485.7	18	17	480	1	0.9869	473.7
19	1D	480	1	0.9907	479.4	20	T11INT	4160	1	1.0777	4483.1
21	11A	4160	1	1.0373	4315.3	22	11D	4160	1	1.0451	4347.5
23	SST13	4160	1	1.0372	4314.7	24	SST15	4160	1	1.0449	4346.9
25	13	480	1	0.9976	478.8	26	15	480	1	1.0147	487.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTH (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTH- 1-9B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	18	19.0	1	1.0515	20.0	4	13A	115	1	1.0610	122.0
5	767	34.5	1	1.0307	35.6	6	12T	34.5	1	1.0304	35.6
7	T12INT	4160	1	1.0303	4286.0	8	12A	4160	1	1.0285	4278.5
9	SST14	4160	1	1.0280	4276.4	10	SST18	4160	1	1.0280	4276.5
11	14	480	1	1.0060	482.9	12	18	480	1	1.0072	484.4
13	1C	480	1	0.9927	476.5	14	12B	4160	1	1.0281	4276.9
15	SST16	4160	1	1.0277	4275.3	16	SST17	4160	1	1.0269	4272.0
17	16	480	1	1.0119	485.7	18	17	480	1	0.9869	473.7
19	1D	480	1	0.9987	479.4	20	T11INT	4160	1	1.0783	4485.7
21	11A	4160	1	1.0549	4388.5	22	11B	4160	1	1.0457	4350.2
23	SST13	4160	1	1.0548	4387.9	24	SST15	4160	1	1.0456	4349.6
25	13	480	1	1.0159	487.6	26	15	480	1	1.0153	487.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

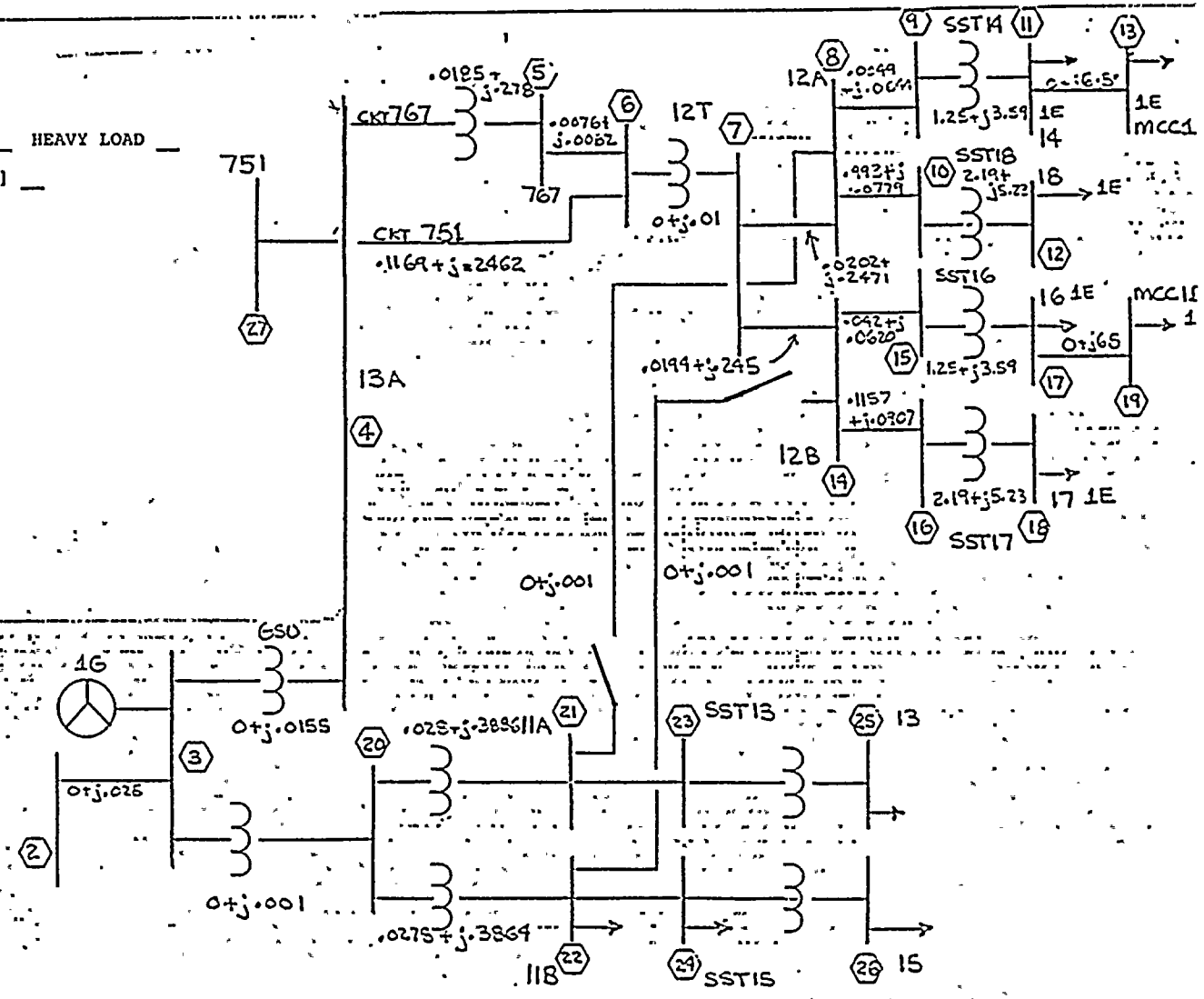
ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

CASE: ONTN-2

OPERATING MODE: (1) ONLINE X OFFLINE \_\_\_\_\_  
(2) SAFETY BUSES: \_\_\_\_\_  
LIGHT LOAD \_\_\_\_\_ NORMAL LOAD \_\_\_\_\_ HEAVY LOAD \_\_\_\_\_  
(3) INSERVICE OFFSITE SOURCE: \_\_\_\_\_  
CIRCUIT 767 \_\_\_\_\_ CIRCUIT 751 \_\_\_\_\_

BUS	P (mw)	Q (mvar)	BUS	P (mw)	Q (mvar)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.1	.1
5	0	0	18	.6	.5
6	0	0	19	.3	.2
7	0	0	20	0	0
8	0	0	21	11.8	8.8
9	0	0	22	10	7.5
10	0	0	23	0	0
11	.3	.2	24	0	0
12	.3	.2	25	.6	.5
13	.3	.2	26	.5	.4
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	17.0	1	1.0085	17.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9548	32.9	7	T12INT	4160	1	0.9546	3971.3
8	12A	4160	1	0.9519	3957.8	9	SST14	4160	1	0.9511	3956.5
10	SST18	4160	1	0.9514	3957.6	11	14	480	1	0.9150	439.2
12	18	480	1	0.9310	446.9	13	1C	480	1	0.8801	422.4
14	12B	4160	1	0.9522	3961.3	15	SST16	4160	1	0.9518	3959.6
16	SST17	4160	1	0.9510	3956.0	17	16	480	1	0.9346	448.6
18	17	480	1	0.9074	435.6	19	1D	480	1	0.9203	441.7
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	400	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9556	33.0	7	T12INT	4160	1	0.9554	3974.6
8	12A	4160	1	0.9534	3966.1	9	SST14	4160	1	0.9528	3963.6
10	SST18	4160	1	0.9529	3963.9	11	14	480	1	0.9274	445.1
12	18	480	1	0.9325	447.6	13	1C	480	1	0.9109	437.3
14	12B	4160	1	0.9530	3964.6	15	SST16	4160	1	0.9526	3962.9
16	SST17	4160	1	0.9518	3959.3	17	16	480	1	0.9354	449.0
18	17	480	1	0.9082	436.0	19	1D	480	1	0.9211	442.1
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9931	34.3	7	T12INT	4160	1	0.9929	4130.4
8	12A	4160	1	0.9902	4119.1	9	SST14	4160	1	0.9894	4115.9
10	SST18	4160	1	0.9897	4117.0	11	14	480	1	0.9538	457.3
12	18	480	1	0.9701	465.6	13	1C	480	1	0.9187	441.0
14	12B	4160	1	0.9906	4120.8	15	SST16	4160	1	0.9902	4119.2
16	SST17	4160	1	0.9894	4115.8	17	16	480	1	0.9737	467.4
18	17	480	1	0.9477	454.9	19	1D	480	1	0.9600	460.3
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9938	34.3	7	T12INT	4160	1	0.9937	4133.7
8	12A	4160	1	0.9917	4125.5	9	SST14	4160	1	0.9911	4123.1
10	SST18	4160	1	0.9912	4123.4	11	14	480	1	0.9667	464.0
12	18	400	1	0.9717	466.4	13	1C	480	1	0.9508	456.4
14	12B	4160	1	0.9914	4124.1	15	SST16	4160	1	0.9910	4122.6
16	SST17	4160	1	0.9902	4119.1	17	16	480	1	0.9745	457.8
18	17	480	1	0.9485	455.3	19	1D	480	1	0.9608	461.2
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0222	35.3	7	T12INT	4160	1	1.0220	4251.7
8	12A	4160	1	1.0194	4240.6	9	SST14	4160	1	1.0186	4237.4
10	SST18	4160	1	1.0189	4238.6	11	14	480	1	0.9834	472.0
12	18	480	1	0.9999	480.0	13	1C	480	1	0.9481	455.1
14	12B	4160	1	1.0198	4242.5	15	SST16	4160	1	1.0195	4240.9
16	SST17	4160	1	1.0187	4237.6	17	16	480	1	1.0035	481.7
18	17	480	1	0.9783	469.6	19	1D	480	1	0.9902	475.3
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0025	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0230	35.3	7	T12INT	4160	1	1.0229	4255.1
8	12A	4160	1	1.0210	4247.2	9	SST14	4160	1	1.0204	4244.8
10	SST18	4160	1	1.0205	4245.1	11	14	480	1	0.9966	478.4
12	18	480	1	1.0015	480.7	13	1C	430	1	0.9811	470.9
14	12B	4160	1	1.0206	4245.9	15	SST16	4160	1	1.0203	4244.3
16	SST17	4160	1	1.0195	4241.0	17	16	480	1	1.0043	482.1
18	17	480	1	0.9791	470.0	19	1D	480	1	0.9910	475.7
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	400	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN--2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0005	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9511	32.8	7	T12INT	4160	1	0.9508	3255.2
8	12A	4160	1	0.9443	3928.5	9	SST14	4160	1	0.9426	3921.1
10	SST18	4160	1	0.9438	3926.3	11	14	480	1	0.8525	409.2
12	18	480	1	0.9232	443.2	13	1C	480	1	0.8366	401.5
14	12B	4160	1	0.9484	3945.1	15	SST16	4160	1	0.9480	3943.5
16	SST17	4160	1	0.9471	3939.9	17	16	480	1	0.9307	446.7
18	17	480	1	0.9033	433.6	19	1D	480	1	0.9162	439.8
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN- 2-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9558	33.0	7	T12INT	4160	1	0.9557	3975.6
8	12A	4160	1	0.9530	3967.8	9	SST14	4160	1	0.9533	3965.6
10	SST18	4160	1	0.9533	3965.6	11	14	480	1	0.9311	446.9
12	18	480	1	0.9329	447.8	13	1C	480	1	0.9166	440.0
14	12B	4160	1	0.9533	3965.6	15	SST16	4160	1	0.9529	3963.9
16	SST17	4160	1	0.9520	3960.3	17	16	480	1	0.9357	449.1
18	17	480	1	0.9085	436.1	19	1D	480	1	0.9213	442.2
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	17.0	1	1.0085	17.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9891	34.1	7	T12INT	4160	1	0.9887	4113.2
8	12A	4160	1	0.9822	4085.8	9	SST14	4160	1	0.9803	4078.2
10	SST18	4160	1	0.9817	4083.7	11	14	480	1	0.9874	426.0
12	18	480	1	0.9619	461.7	13	1C	480	1	0.8722	418.6
14	12B	4160	1	0.9864	4103.6	15	SST16	4160	1	0.9861	4102.0
16	SST17	4160	1	0.9852	4098.5	17	13	480	1	0.9795	465.4
18	17	480	1	0.9433	452.8	19	1D	480	1	0.9557	458.7
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-5A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	0.9940	34.3	7	T12INT	4160	1	0.9939	4134.4
8	12A	4160	1	0.9920	4126.8	9	SST14	4160	1	0.9915	4124.7
10	SST18	4160	1	0.9915	4124.7	11	14	480	1	0.9694	465.3
12	18	480	1	0.9720	466.6	13	1C	480	1	0.9555	458.6
14	12B	4160	1	0.9916	4124.9	15	SST16	4160	1	0.9912	4123.3
16	SST17	4160	1	0.9904	4119.9	17	16	480	1	0.9747	467.9
18	17	480	1	0.9487	455.4	19	1D	480	1	0.9610	461.3
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-6

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	1G	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0241	35.3	7	T12INT	4160	1	1.0237	4258.7
8	12A	4160	1	1.0170	4230.8	9	SST14	4160	1	1.0151	4223.0
10	SST18	4160	1	1.0165	4228.7	11	14	480	1	0.9198	441.5
12	18	480	1	0.9975	478.8	13	1C	480	1	0.9051	434.4
14	12B	4160	1	1.0215	4249.5	15	SST16	4160	1	1.0211	4248.0
16	SST17	4160	1	1.0203	4244.6	17	16	480	1	1.0052	482.5
18	17	480	1	0.9800	470.4	19	1D	480	1	0.9919	476.1
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0350	35.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE ONTN (ONLINE TRANSIENT NORMAL LOADS) TABLE: ONTN-2-6A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
3	16	19.0	1	1.0085	19.2	4	13A	115	1	1.0170	117.0
6	12T	34.5	1	1.0292	35.5	7	T12INT	4160	1	1.0290	4280.8
8	12A	4160	1	1.0272	4273.2	9	SST14	4160	1	1.0267	4271.1
10	SST18	4160	1	1.0267	4271.2	11	14	480	1	1.0046	482.2
12	18	480	1	1.0079	483.8	13	1C	480	1	0.9912	475.8
14	12B	4160	1	1.0268	4271.6	15	SST16	4160	1	1.0265	4270.1
16	SST17	4160	1	1.0257	4266.7	17	16	480	1	1.0106	485.1
18	17	480	1	0.9856	473.1	19	1B	480	1	0.9974	478.7
20	T11INT	4160	1	1.0342	4302.3	21	11A	4160	1	0.9930	4130.7
22	11B	4160	1	1.0001	4160.3	23	SST13	4160	1	0.9928	4130.1
24	SST15	4160	1	0.9999	4159.7	25	13	480	1	0.9513	456.6
26	15	480	1	0.9682	464.7	27	751	34.5	1	1.0350	35.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

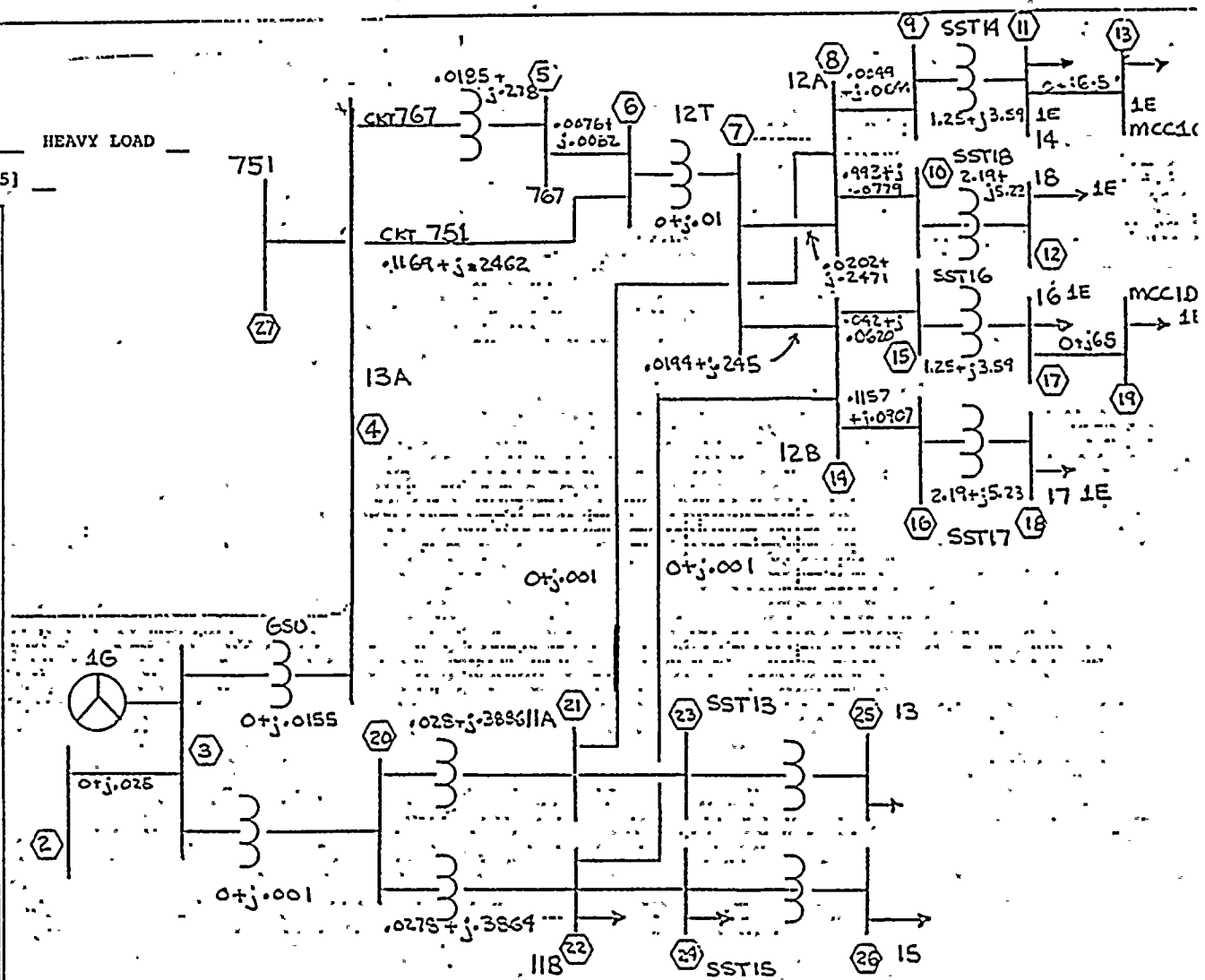
ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

BASE CASE: OFTS-1

OPERATING MODE: (1) ONLINE \_\_\_\_\_ OFFLINE X  
(2) SAFETY BUSES:  
LIGHT LOAD \_\_\_\_\_ NORMAL LOAD \_\_\_\_\_ HEAVY LOAD \_\_\_\_\_  
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767 \_\_\_\_\_ CIRCUIT 75] \_\_\_\_\_

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.9	.7
5	0	0	18	.5	.4
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	3	2.2
9	0	0	22	6	4.5
10	0	0	23	0	0
11	.9	.7	24	0	0
12	.3	.2	25	.5	.4
13	.3	.2	26	.6	.5
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9222	31.8
6	12T	34.5	1	0.9203	31.8	7	T12INT	4160	1	0.9191	3023.5
8	12A	4160	1	0.9066	3771.3	9	SST14	4160	1	0.9050	3764.9
10	SST18	4160	1	0.9061	3769.2	11	14	480	1	0.8368	401.7
12	18	480	1	0.8868	425.6	13	1C	480	1	0.8021	385.0
14	12B	4160	1	0.8996	3742.4	15	SST16	4160	1	0.8984	3737.4
16	SST17	4160	1	0.8985	3737.8	17	16	480	1	0.8451	405.7
18	17	480	1	0.8613	413.4	19	1D	480	1	0.8333	400.0
21	11A	4160	1	0.9065	3771.2	22	11B	4160	1	0.8996	3742.2
23	SST13	4160	1	0.9064	3770.6	24	SST15	4160	1	0.8994	3741.3
25	13	480	1	0.8695	417.4	26	15	480	1	0.8530	409.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 1-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9228	31.8
6	12T	34.5	1	0.9210	31.8	7	T12INT	4160	1	0.9198	3826.4
8	12A	4160	1	0.9079	3776.8	9	SST14	4160	1	0.9065	3771.2
10	SST18	4160	1	0.9074	3774.7	11	14	480	1	0.8485	407.3
12	18	480	1	0.8881	426.3	13	1C	480	1	0.8308	398.8
14	12B	4160	1	0.9003	3745.1	15	SST16	4160	1	0.8991	3740.1
16	SST17	4160	1	0.8992	3740.6	17	16	480	1	0.8458	406.0
18	17	480	1	0.8620	413.8	19	1D	480	1	0.8340	400.3
21	11A	4160	1	0.9079	3776.7	22	11B	4160	1	0.9002	3744.9
23	SST13	4160	1	0.9077	3776.1	24	SST15	4160	1	0.9000	3744.1
25	13	480	1	0.8709	418.0	26	15	480	1	0.8537	409.8

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9395	32.4
5	12T	34.5	1	0.9377	32.3	7	T12INT	4160	1	0.9365	3895.8
8	12A	4160	1	0.9242	3844.5	9	SST14	4160	1	0.9226	3838.2
10	SST18	4160	1	0.9237	3842.4	11	14	480	1	0.8555	410.6
12	18	480	1	0.9048	434.3	13	1C	480	1	0.8208	394.0
14	12B	4160	1	0.9174	3816.4	15	SST16	4160	1	0.9162	3811.5
16	SST17	4160	1	0.9163	3811.9	17	16	480	1	0.8642	414.8
18	17	480	1	0.8799	422.3	19	1D	480	1	0.8526	409.2
21	11A	4160	1	0.9241	3844.4	22	11B	4160	1	0.9173	3816.1
23	SST13	4160	1	0.9240	3843.8	24	SST15	4160	1	0.9172	3815.3
25	13	480	1	0.8879	426.2	26	15	480	1	0.8718	418.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9403	32.4
6	12T	34.5	1	0.9385	32.4	7	T12INT	4160	1	0.9373	3899.3
8	12A	4160	1	0.9257	3850.9	9	SST14	4160	1	0.9244	3845.4
10	SST18	4160	1	0.9252	3848.8	11	14	480	1	0.8677	416.5
12	18	480	1	0.9063	435.0	13	1C	480	1	0.8503	408.1
14	12B	4160	1	0.9183	3819.9	15	SST16	4160	1	0.9171	3815.1
16	SST17	4160	1	0.9172	3815.5	17	16	480	1	0.8651	415.2
18	17	480	1	0.8808	422.8	19	1D	480	1	0.8535	409.7
21	11A	4160	1	0.9257	3850.8	22	11B	4160	1	0.9182	3819.7
23	SST13	4160	1	0.9255	3850.2	24	SST15	4160	1	0.9180	3818.9
25	13	480	1	0.8875	427.0	26	15	480	1	0.8727	418.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.9660	33.3
6	12T	34.5	1	0.9642	33.3	7	T12INT	4160	1	0.9631	4006.5
8	12A	4160	1	0.9511	3956.6	9	SST14	4160	1	0.9496	3950.5
10	SST18	4160	1	0.9506	3954.6	11	14	480	1	0.8840	424.3
12	13	480	1	0.9323	447.5	13	1C	480	1	0.8492	407.6
14	12B	4160	1	0.9446	3929.5	15	SST16	4160	1	0.9435	3924.8
16	SST17	4160	1	0.9436	3925.2	17	16	480	1	0.8931	428.7
18	17	480	1	0.9083	436.0	19	1D	480	1	0.8820	423.3
21	11A	4160	1	0.9511	3956.5	22	11B	4160	1	0.9445	3929.3
23	SST13	4160	1	0.9510	3956.0	24	SST15	4160	1	0.9444	3928.5
25	13	480	1	0.9160	439.7	26	15	480	1	0.9004	432.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.9668	33.4
6	12T	34.5	1	0.9651	33.3	7	T12INT	4160	1	0.9640	4010.1
8	12A	4160	1	0.9527	3963.3	9	SST14	4160	1	0.9514	3957.9
10	SST18	4160	1	0.9522	3961.3	11	14	480	1	0.8965	430.3
12	18	480	1	0.9339	448.3	13	1C	480	1	0.8796	422.2
14	12B	4160	1	0.9455	3933.1	15	SST16	4160	1	0.9443	3928.3
16	SST17	4160	1	0.9444	3928.8	17	16	480	1	0.8940	429.1
18	17	480	1	0.9092	436.4	19	1D	480	1	0.8829	423.8
21	11A	4160	1	0.9527	3963.2	22	11B	4160	1	0.9454	3932.9
23	SST13	4160	1	0.9526	3962.6	24	SST15	4160	1	0.9452	3932.1
25	13	480	1	0.9176	440.5	26	15	480	1	0.9014	432.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	1.0015	34.6
6	12T	34.5	1	0.9998	34.5	7	T12INT	4160	1	0.9987	4154.6
8	12A	4160	1	0.9871	4106.5	9	SST14	4160	1	0.9857	4100.5
10	SST18	4160	1	0.9867	4104.6	11	14	480	1	0.9219	442.5
12	18	480	1	0.9690	465.1	13	1C	480	1	0.8869	425.7
14	12B	4160	1	0.9809	4080.6	15	SST16	4160	1	0.9798	4076.1
16	SST17	4160	1	0.9799	4076.5	17	16	480	1	0.9316	447.2
18	17	480	1	0.9461	454.1	19	1D	480	1	0.9210	442.1
21	11A	4160	1	0.9871	4106.4	22	11B	4160	1	0.9809	4080.4
23	SST13	4160	1	0.9870	4105.9	24	SST15	4160	1	0.9807	4079.7
25	13	480	1	0.9534	457.6	26	15	480	1	0.9386	450.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	1.0024	34.6
6	12T	34.5	1	1.0007	34.5	7	T12INT	4160	1	0.9996	4158.4
8	12A	4160	1	0.9888	4113.5	9	SST14	4160	1	0.9876	4108.4
10	SST18	4160	1	0.9894	4111.6	11	14	480	1	0.9349	448.7
12	18	480	1	0.9707	466.0	13	1C	480	1	0.9185	440.9
14	12B	4160	1	0.9818	4084.4	15	SST16	4160	1	0.9807	4079.9
16	SST17	4160	1	0.9808	4080.3	17	16	480	1	0.9326	447.7
18	17	480	1	0.9470	454.6	19	1D	480	1	0.9219	442.5
21	11A	4160	1	0.9888	4113.4	22	11B	4160	1	0.9818	4084.2
23	SST13	4160	1	0.9887	4112.9	24	SST15	4160	1	0.9816	4083.5
25	13	480	1	0.9551	458.5	26	15	480	1	0.9395	451.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9172	31.6
6	12T	34.5	1	0.9152	31.6	7	T12INT	4160	1	0.9139	3801.6
8	12A	4160	1	0.8971	3731.9	9	SST14	4160	1	0.8943	3720.3
10	SST18	4160	1	0.8966	3729.7	11	14.	480	1	0.7623	365.9
12	18	480	1	0.8771	421.0	13	1C	480	1	0.7443	357.3
14	12D	4160	1	0.8942	3720.0	15	SST16	4160	1	0.8930	3715.0
16	SST17	4160	1	0.8931	3715.4	17	16	480	1	0.8394	402.9
18	17	480	1	0.8557	410.7	19	1D	480	1	0.8274	397.2
21	11A	4160	1	0.8971	3731.8	22	11B	4160	1	0.8942	3719.8
23	SST13	4160	1	0.8969	3731.2	24	SST15	4160	1	0.8940	3719.0
25	13	480	1	0.8596	412.6	26	15	480	1	0.8473	406.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-5A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9223	31.8
6	12T	34.5	1	0.9205	31.8	7	T12INT	4160	1	0.9193	3824.3
8	12A	4160	1	0.9070	3772.9	9	SST14	4160	1	0.9054	3766.4
10	SST18	4160	1	0.9064	3770.8	11	14	480	1	0.8386	402.5
12	18	480	1	0.8872	425.8	13	1C	480	1	0.8224	394.7
14	12B	4160	1	0.8998	3743.1	15	SST16	4160	1	0.8986	3738.1
16	SST17	4160	1	0.8787	3738.5	17	16	480	1	0.8453	405.8
18	17	480	1	0.8615	413.5	19	1D	480	1	0.8335	400.1
21	11A	4160	1	0.9067	3772.8	22	11B	4160	1	0.8977	3742.8
23	SST13	4160	1	0.9068	3772.2	24	SST15	4160	1	0.8995	3742.0
25	13	480	1	0.8679	417.6	26	15	480	1	0.8532	409.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-6

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9345	32.2
6	12T	34.5	1	0.9325	32.2	7	T12INT	4160	1	0.9312	3873.7
8	12A	4160	1	0.9146	3804.7	9	SST14	4160	1	0.9118	3793.1
10	SST18	4160	1	0.9141	3802.6	11	14	480	1	0.7797	374.3
12	18	480	1	0.8950	429.6	13	1C	480	1	0.7621	365.8
14	12B	4160	1	0.9119	3793.6	15	SST16	4160	1	0.9107	3788.7
16	SST17	4160	1	0.9108	3789.1	17	16	480	1	0.8583	412.0
18	17	480	1	0.8742	419.6	19	1D	480	1	0.8467	406.4
21	11A	4160	1	0.9146	3804.5	22	11B	4160	1	0.9119	3793.4
23	SST13	4160	1	0.9144	3804.0	24	SST15	4160	1	0.9117	3792.6
25	13	480	1	0.8777	421.4	26	15	480	1	0.8660	415.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-6A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9397	32.4
6	12T	34.5	1	0.9379	32.4	7	T12INT	4160	1	0.9367	3896.7
8	12A	4160	1	0.9246	3846.4	9	SST14	4160	1	0.9231	3839.9
10	SST18	4160	1	0.9241	3844.3	11	14	480	1	0.8574	411.5
12	18	480	1	0.9052	434.5	13	1C	480	1	0.8415	403.9
14	12B	4160	1	0.9176	3817.2	15	SST16	4160	1	0.9164	3812.3
16	SST17	4160	1	0.9165	3812.8	17	16	480	1	0.8644	414.9
18	17	480	1	0.8801	422.5	19	1D	480	1	0.8528	409.3
21	11A	4160	1	0.9246	3846.2	22	11B	4160	1	0.9175	3817.0
23	SST13	4160	1	0.9244	3845.7	24	SST15	4160	1	0.9174	3816.2
25	13	480	1	0.8884	426.4	26	15	480	1	0.8720	418.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-7

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.9608	33.1
6	12T	34.5	1	0.9589	33.1	7	T12INT	4160	1	0.9576	3983.5
8	12A	4160	1	0.9411	3915.1	9	SST14	4160	1	0.9384	3903.6
10	SST18	4160	1	0.9406	3913.1	11	14	480	1	0.8060	386.9
12	18	480	1	0.9221	442.6	13	1C	480	1	0.7890	378.7
14	12B	4160	1	0.9389	3905.9	15	SST16	4160	1	0.9378	3901.2
16	SST17	4160	1	0.9379	3901.6	17	16	480	1	0.8871	425.8
18	17	480	1	0.9024	433.1	19	1D	480	1	0.8759	420.4
21	11A	4160	1	0.9411	3915.0	22	11B	4160	1	0.9389	3905.7
23	SST13	4160	1	0.9410	3914.4	24	SST15	4160	1	0.9387	3904.9
25	13	480	1	0.9056	434.7	26	15	480	1	0.8945	429.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--FSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-7A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.9661	33.3
6	12T	34.5	1	0.9644	33.3	7	T12INT	4160	1	0.9632	4007.1
8	12A	4160	1	0.9514	3958.0	9	SST14	4160	1	0.9499	3951.7
10	SST18	4160	1	0.9510	3956.0	11	14	480	1	0.8858	425.2
12	18	480	1	0.9326	447.7	13	1C	480	1	0.8705	417.8
14	12B	4160	1	0.9447	3929.9	15	SST16	4160	1	0.9436	3925.2
16	SST17	4160	1	0.9437	3925.6	17	16	480	1	0.8932	428.8
18	17	480	1	0.9084	436.0	19	1D	480	1	0.8821	423.4
21	11A	4160	1	0.9514	3957.9	22	11B	4160	1	0.9446	3929.7
23	SST13	4160	1	0.9513	3957.3	24	SST15	4160	1	0.9445	3929.0
25	13	480	1	0.9163	439.8	26	15	480	1	0.9006	432.3

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS--1-8

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	0.9962	34.4
6	12T	34.5	1	0.9943	34.3	7	T12INT	4160	1	0.9930	4131.0
8	12A	4160	1	0.9769	4063.8	9	SST14	4160	1	0.9741	4052.2
10	SST18	4160	1	0.9764	4061.8	11	14	480	1	0.8411	403.7
12	18	480	1	0.9586	460.1	13	1C	480	1	0.8249	396.0
14	12B	4160	1	0.9751	4056.5	15	SST16	4160	1	0.9740	4052.0
16	SST17	4160	1	0.9741	4052.4	17	16	480	1	0.9255	444.2
18	17	480	1	0.9400	451.2	19	1D	480	1	0.9147	439.1
21	11A	4160	1	0.9768	4063.7	22	11B	4160	1	0.9751	4056.3
23	SST13	4160	1	0.9767	4063.1	24	SST15	4160	1	0.9749	4055.6
25	13	480	1	0.9427	452.5	26	15	480	1	0.9325	447.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-8A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	1.0017	34.6
6	12T	34.5	1	1.0000	34.5	7	T12INT	4160	1	0.9989	4155.6
8	12A	4160	1	0.9876	4108.3	9	SST14	4160	1	0.9861	4102.2
10	SST18	4160	1	0.9871	4106.3	11	14	480	1	0.9239	443.5
12	18	480	1	0.9695	465.3	13	1C	480	1	0.9092	436.4
14	12B	4160	1	0.9812	4081.8	15	SST16	4160	1	0.9801	4077.2
16	SST17	4160	1	0.9802	4077.6	17	16	480	1	0.9319	447.3
18	17	480	1	0.9463	454.2	19	1D	480	1	0.9212	442.2
21	11A	4160	1	0.9875	4108.1	22	11B	4160	1	0.9811	4081.5
23	SST13	4160	1	0.9874	4107.6	24	SST15	4160	1	0.9810	4080.8
25	13	480	1	0.9538	457.8	26	15	480	1	0.9389	450.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 1-9

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.8428	29.1
6	12T	34.5	1	0.8387	28.9	7	T12INT	4160	1	0.8347	3472.4
8	12A	4160	1	0.7545	3138.6	9	SST14	4160	1	0.7528	3131.7
10	SST18	4160	1	0.7539	3136.0	11	14	480	1	0.6819	327.3
12	18	480	1	0.7304	350.6	13	1C	480	1	0.6617	317.6
14	12B	4160	1	0.8129	3381.8	15	SST16	4160	1	0.8116	3376.2
16	SST17	4160	1	0.8117	3376.7	17	16	480	1	0.7514	360.7
18	17	480	1	0.7700	369.6	19	1D	480	1	0.7380	354.2
21	11A	4160	1	0.7542	3137.4	22	11B	4160	1	0.8129	3381.6
23	SST13	4160	1	0.7540	3136.7	24	SST15	4160	1	0.8127	3380.7
25	13	480	1	0.7086	340.1	26	15	480	1	0.7606	365.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



ENTER VMAX, VMIN

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-9A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	0.9830	113.0	5	767	34.5	1	0.9117	31.5
6	12T	34.5	1	0.9093	31.4	7	T12INT	4160	1	0.9078	3776.3
8	12A	4160	1	0.8867	3688.8	9	SST14	4160	1	0.8854	3683.2
10	SST18	4160	1	0.8862	3686.6	11	14	480	1	0.8273	397.1
12	18	480	1	0.8665	415.9	13	1C	480	1	0.8108	389.2
14	12B	4160	1	0.8880	3694.0	15	SST16	4160	1	0.8868	3688.9
16	SST17	4160	1	0.8867	3687.4	17	16	480	1	0.8327	399.7
18	17	480	1	0.8491	407.6	19	1D	480	1	0.8206	393.9
21	11A	4160	1	0.8867	3688.6	22	11B	4160	1	0.8879	3693.8
23	SST13	4160	1	0.8865	3688.0	24	SST15	4160	1	0.8877	3693.0
25	13	480	1	0.8487	407.4	26	15	480	1	0.8407	403.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-10

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.8587	29.6
6	12T	34.5	1	0.8546	29.5	7	T12INT	4160	1	0.8506	3538.6
8	12A	4160	1	0.7693	3200.3	9	SST14	4160	1	0.7677	3173.5
10	SST18	4160	1	0.7687	3197.7	11	14	480	1	0.6983	335.2
12	18	480	1	0.7457	357.9	13	1C	480	1	0.6786	325.7
14	12B	4160	1	0.8293	3449.9	15	SST16	4160	1	0.8280	3444.4
16	SST17	4160	1	0.8281	3444.7	17	16	480	1	0.7693	369.2
18	17	480	1	0.7873	377.9	19	1D	480	1	0.7562	363.0
21	11A	4160	1	0.7690	3199.0	22	11B	4160	1	0.8292	3449.6
23	SST13	4160	1	0.7688	3198.3	24	SST15	4160	1	0.8290	3448.7
25	13	480	1	0.7245	347.7	26	15	480	1	0.7781	373.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P, T, I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-10A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9288	32.0
6	12T	34.5	1	0.9265	32.0	7	T12INT	4160	1	0.9250	3847.9
8	12A	4160	1	0.9040	3760.7	9	SST14	4160	1	0.9027	3755.1
10	SST18	4160	1	0.9035	3758.5	11	14	480	1	0.8459	406.0
12	18	480	1	0.8841	424.4	13	1C	480	1	0.8293	398.3
14	12B	4160	1	0.9056	3767.3	15	SST16	4160	1	0.9044	3762.3
16	SST17	4160	1	0.9045	3762.8	17	16	480	1	0.8515	408.7
18	17	480	1	0.8676	416.4	19	1D	480	1	0.8398	403.1
21	11A	4160	1	0.9039	3760.4	22	11B	4160	1	0.9055	3767.1
23	SST13	4160	1	0.9038	3759.8	24	SST15	4160	1	0.9054	3766.3
25	13	480	1	0.8663	416.1	26	15	480	1	0.8593	412.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-11

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.8833	30.5
6	12T	34.5	1	0.8792	30.3	7	T12INT	4160	1	0.8752	3640.7
8	12A	4160	1	0.7923	3296.1	9	SST14	4160	1	0.7908	3289.6
10	SST18	4160	1	0.7917	3293.6	11	14	480	1	0.7240	347.5
12	18	480	1	0.7695	369.3	13	1C	480	1	0.7049	338.4
14	12B	4160	1	0.8546	3555.1	15	SST16	4160	1	0.8533	3549.8
16	SST17	4160	1	0.8534	3550.3	17	16	480	1	0.7967	382.4
18	17	480	1	0.8140	390.7	19	1B	480	1	0.7841	376.4
21	11A	4160	1	0.7920	3294.8	22	11B	4160	1	0.8545	3554.9
23	SST13	4160	1	0.7919	3294.1	24	SST15	4160	1	0.8543	3554.0
25	13	480	1	0.7490	359.5	26	15	480	1	0.8052	386.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-11A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0260	118.0	5	767	34.5	1	0.9551	33.0
6	12T	34.5	1	0.9528	32.9	7	T12INT	4160	1	0.9513	3957.5
8	12A	4160	1	0.9305	3870.7	9	SST14	4160	1	0.9292	3865.4
10	SST18	4160	1	0.9300	3868.7	11	14	480	1	0.8743	419.7
12	18	480	1	0.9112	437.4	13	1C	480	1	0.8588	412.2
14	12B	4160	1	0.9326	3879.4	15	SST16	4160	1	0.9314	3874.6
16	SST17	4160	1	0.9315	3875.1	17	16	480	1	0.8803	422.6
18	17	480	1	0.8957	429.9	19	1D	480	1	0.8690	417.1
21	11A	4160	1	0.9304	3870.5	22	11B	4160	1	0.9325	3879.2
23	SST13	4160	1	0.9303	3869.9	24	SST15	4160	1	0.9323	3878.4
25	13	480	1	0.8944	429.3	26	15	480	1	0.8878	426.1

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-12

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0310	122.0	5	767	34.5	1	0.9162	31.6
6	12T	34.5	1	0.9121	31.5	7	T12INT	4160	1	0.9080	3777.4
8	12A	4160	1	0.8232	3424.4	9	SST14	4160	1	0.8217	3413.2
10	SST18	4160	1	0.8226	3422.0	11	14	480	1	0.7580	363.9
12	18	480	1	0.8012	384.6	13	1C	480	1	0.7399	355.2
14	12B	4160	1	0.8882	3695.1	15	SST16	4160	1	0.8870	3690.0
16	SST17	4160	1	0.8871	3690.5	17	16	480	1	0.8329	399.8
18	17	480	1	0.8494	407.7	19	1D	480	1	0.8209	394.0
21	11A	4160	1	0.8229	3423.1	22	11B	4160	1	0.8882	3694.9
23	SST13	4160	1	0.8227	3422.4	24	SST15	4160	1	0.8880	3694.0
25	13	480	1	0.7816	375.2	26	15	480	1	0.8409	403.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 SINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-1-12A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	0.9904	34.2
6	12T	34.5	1	0.9881	34.1	7	T12INT	4160	1	0.9867	4104.6
8	12A	4160	1	0.9659	4018.3	9	SST14	4160	1	0.9647	4013.2
10	SST18	4160	1	0.9655	4016.3	11	14	480	1	0.9122	437.9
12	18	480	1	0.9474	454.8	13	1C	480	1	0.8974	430.7
14	12D	4160	1	0.9687	4029.7	15	SST16	4160	1	0.9676	4025.1
16	SST17	4160	1	0.9677	4025.5	17	16	480	1	0.9187	441.0
18	17	480	1	0.9333	448.0	19	1D	480	1	0.9078	435.8
21	11A	4160	1	0.9659	4018.0	22	11B	4160	1	0.9686	4029.5
23	SST13	4160	1	0.9657	4017.5	24	SST15	4160	1	0.9684	4028.7
25	13	480	1	0.9313	447.0	26	15	480	1	0.9253	444.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

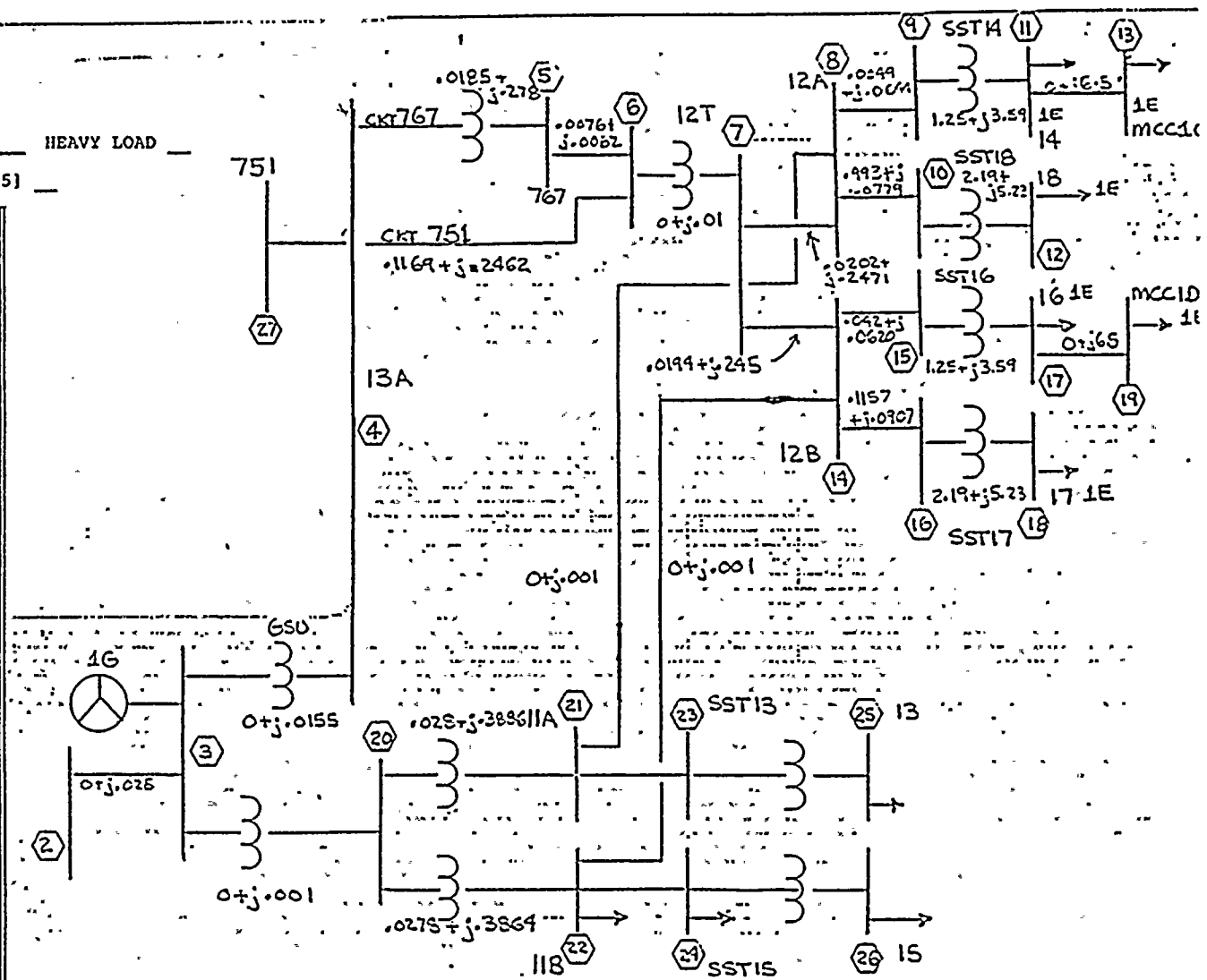
The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



BASE CASE: OFTS-2

OPERATING MODE: (1) ONLINE \_\_\_\_\_ OFFLINE X  
(2) SAFETY BUSES:  
LIGHT LOAD \_\_\_\_\_ NORMAL LOAD \_\_\_\_\_ HEAVY LOAD \_\_\_\_\_  
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767 \_\_\_\_\_ CIRCUIT 751 \_\_\_\_\_

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.9	.7
5	0	0	18	.5	.4
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	3	2.2
9	0	0	22	6	4.5
10	0	0	23	0	0
11	.9	.7	24	0	0
12	.3	.2	25	.5	.4
13	.3	.2	26	.6	.5
14	0	0	27	0	0





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	3	12T	34.5	1	0.9148	31.6
7	T12INT	4160	1	0.9136	3800.6	8	12A	4160	1	0.9010	3748.0
9	SST14	4160	1	0.8994	3741.6	10	SST18	4160	1	0.9005	3745.9
11	14	480	1	0.8308	398.8	12	18	480	1	0.8810	422.9
13	1C	480	1	0.7961	382.2	14	12B	4160	1	0.8940	3718.8
15	SST16	4160	1	0.8927	3713.8	16	SST17	4160	1	0.8929	3714.3
17	16	480	1	0.8391	402.8	18	17	480	1	0.8554	410.6
19	1D	480	1	0.8271	397.0	21	11A	4160	1	0.9009	3747.9
22	11B	4160	1	0.8939	3718.6	23	SST13	4160	1	0.9008	3747.3
24	SST15	4160	1	0.8937	3717.8	25	13	480	1	0.8637	414.6
26	15	480	1	0.8470	406.6	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE: OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9156	31.6
7	T12INT	4160	1	0.9144	3803.8	8	12A	4160	1	0.9025	3754.2
9	SST14	4160	1	0.9011	3748.5	10	SST18	4160	1	0.9019	3752.1
11	14	480	1	0.8427	404.5	12	18	480	1	0.8826	423.6
13	1C	480	1	0.8249	395.9	14	12B	4160	1	0.8947	3722.1
15	SST16	4160	1	0.8935	3717.1	16	SST17	4160	1	0.8936	3717.5
17	16	480	1	0.8399	403.2	18	17	480	1	0.8562	411.0
19	1D	480	1	0.8280	397.4	21	11A	4160	1	0.9024	3754.1
22	11B	4160	1	0.8947	3721.9	23	SST13	4160	1	0.9023	3753.5
24	SST15	4160	1	0.8945	3721.1	25	13	480	1	0.8652	415.3
26	15	480	1	0.8478	407.0	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9549	32.9
7	T12INT	4160	1	0.9538	3967.7	8	12A	4160	1	0.9417	3917.3
9	SST14	4160	1	0.9402	3911.1	10	SST18	4160	1	0.9412	3915.3
11	14	480	1	0.8740	419.5	12	18	480	1	0.9226	442.9
13	1C	480	1	0.8392	402.8	14	12B	4160	1	0.9350	3889.7
15	SST16	4160	1	0.9339	3884.9	16	SST17	4160	1	0.9340	3885.3
17	16	480	1	0.8830	423.8	18	17	480	1	0.8983	431.2
19	1D	480	1	0.8716	418.4	21	11A	4160	1	0.9416	3917.2
22	11B	4160	1	0.9350	3889.5	23	SST13	4160	1	0.9415	3916.6
24	SST15	4160	1	0.9348	3888.7	25	13	480	1	0.9061	434.9
26	15	480	1	0.8904	427.4	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	DASKV	AREA	V(PU)	V(KV)	BUS	NAME	DASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9558	33.0
7	T12INT	4160	1	0.9547	3971.4	8	12A	4160	1	0.9433	3924.0
9	SST14	4160	1	0.9420	3918.6	10	SST18	4160	1	0.9428	3922.0
11	14	480	1	0.8864	425.5	12	18	480	1	0.9243	443.7
13	1C	480	1	0.8694	417.3	14	12B	4160	1	0.9360	3893.9
15	SST16	4160	1	0.9349	3889.1	16	SST17	4160	1	0.9350	3889.5
17	16	480	1	0.8840	424.3	18	17	480	1	0.8993	431.7
19	1D	480	1	0.8727	418.9	21	11A	4160	1	0.9432	3923.9
22	11B	4160	1	0.9360	3893.6	23	SST13	4160	1	0.9431	3923.3
24	SST15	4160	1	0.9358	3892.9	25	13	480	1	0.9078	435.7
26	15	480	1	0.8914	427.9	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	DASKV	AREA	V(PU)	V(KV)	BUS	NAME	DASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-3

USES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9854	34.0
7	T12INT	4160	1	0.9842	4094.4	8	12A	4160	1	0.9725	4045.5
9	SST14	4160	1	0.9710	4039.4	10	SST18	4160	1	0.9720	4043.5
11	14	480	1	0.9065	435.1	12	18	480	1	0.9541	458.0
13	1C	480	1	0.8716	418.4	14	12B	4160	1	0.9661	4018.9
15	SST16	4160	1	0.9650	4014.3	16	SST17	4160	1	0.9651	4014.7
17	16	480	1	0.9159	439.7	18	17	480	1	0.9306	446.7
19	1D	480	1	0.9051	434.4	21	11A	4160	1	0.9724	4045.4
22	11B	4160	1	0.9660	4018.7	23	SST13	4160	1	0.9723	4044.8
24	SST15	4160	1	0.9659	4018.0	25	13	480	1	0.9382	450.3
26	15	480	1	0.9230	443.1	27	751	34.5	1	1.0290	35.5

USES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9832	34.0
7	T12INT	4160	1	0.9852	4098.3	8	12A	4160	1	0.9742	4052.6
9	SST14	4160	1	0.9729	4047.3	10	SST18	4160	1	0.9737	4050.6
11	14	480	1	0.9193	441.3	12	18	480	1	0.9558	458.8
13	1C	480	1	0.9028	433.3	14	12B	4160	1	0.9671	4023.1
15	SST16	4160	1	0.9660	4018.5	16	SST17	4160	1	0.9661	4018.9
17	16	480	1	0.9170	440.2	18	17	480	1	0.9317	447.2
19	1D	480	1	0.9061	434.7	21	11A	4160	1	0.9741	4052.4
22	11B	4160	1	0.9670	4022.9	23	SST13	4160	1	0.9740	4051.9
24	SST15	4160	1	0.9669	4022.1	25	13	480	1	0.9399	451.2
26	15	480	1	0.9241	443.6	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0064	34.7
7	T12INT	4160	1	1.0053	4182.2	8	12A	4160	1	0.9938	4134.3
9	SST14	4160	1	0.9924	4128.4	10	SST18	4160	1	0.9934	4132.4
11	14	480	1	0.9289	445.9	12	18	480	1	0.9758	468.4
13	1C	480	1	0.8939	429.1	14	12B	4160	1	0.9877	4108.9
15	SST16	4160	1	0.9866	4104.4	16	SST17	4160	1	0.9867	4104.8
17	16	480	1	0.9388	450.6	18	17	480	1	0.9531	457.5
19	1D	480	1	0.9282	445.5	21	11A	4160	1	0.9938	4134.2
22	11B	4160	1	0.9877	4108.6	23	SST13	4160	1	0.9937	4133.7
24	SST15	4160	1	0.9875	4107.9	25	13	480	1	0.9603	461.0
26	15	480	1	0.9457	453.9	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0073	34.8
7	T12INT	4160	1	1.0062	4185.9	8	12A	4160	1	0.9955	4141.4
9	SST14	4160	1	0.9943	4136.3	10	SST18	4160	1	0.9951	4139.4
11	14	480	1	0.9420	452.1	12	18	480	1	0.9776	469.2
13	1C	480	1	0.9257	444.4	14	12B	4160	1	0.9886	4112.5
15	SST16	4160	1	0.9875	4108.0	16	SST17	4160	1	0.9876	4108.4
17	16	480	1	0.9397	451.1	18	17	480	1	0.9540	457.9
19	1D	480	1	0.9291	446.0	21	11A	4160	1	0.9955	4141.3
22	11B	4160	1	0.9885	4112.3	23	SST13	4160	1	0.9954	4140.7
24	SST15	4160	1	0.9883	4111.5	25	13	480	1	0.9621	461.8
26	15	480	1	0.9466	454.4	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-5

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9101	31.4
7	T12INT	4160	1	0.9087	3780.3	8	12A	4160	1	0.8919	3710.4
9	SST14	4160	1	0.8891	3698.8	10	SST18	4160	1	0.8914	3708.2
11	14	480	1	0.7572	363.4	12	18	480	1	0.8718	418.4
13	1C	480	1	0.7390	354.7	14	12B	4160	1	0.8890	3698.1
15	SST16	4160	1	0.8878	3693.0	16	SST17	4160	1	0.8879	3693.5
17	16	480	1	0.8337	400.2	18	17	480	1	0.8501	408.1
19	1D	480	1	0.8217	394.4	21	11A	4160	1	0.8919	3710.2
22	11B	4160	1	0.8889	3677.9	23	SST13	4160	1	0.8917	3709.6
24	SST15	4160	1	0.8887	3697.1	25	13	480	1	0.8542	410.0
26	15	480	1	0.8417	404.0	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-5A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9148	31.6
7	T12INT	4160	1	0.9136	3800.4	8	12A	4160	1	0.9011	3748.5
9	SST14	4160	1	0.8995	3741.9	10	SST18	4160	1	0.9006	3746.4
11	14	480	1	0.8323	399.5	12	18	480	1	0.8811	423.0
13	1C	480	1	0.8160	371.7	14	12B	4160	1	0.8939	3718.7
15	SST16	4160	1	0.8927	3713.6	16	SST17	4160	1	0.8928	3714.1
17	16	480	1	0.8390	402.7	18	17	480	1	0.8553	410.6
19	1D	480	1	0.8271	397.0	21	11A	4160	1	0.9011	3748.4
22	11B	4160	1	0.8939	3718.5	23	SST13	4160	1	0.9009	3747.8
24	SST15	4160	1	0.8937	3717.6	25	13	480	1	0.8638	414.6
26	15	480	1	0.8469	403.5	27	751	34.5	1	0.9320	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-6

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9500	32.8
7	T12INT	4160	1	0.9487	3946.6	8	12A	4160	1	0.9322	3878.1
9	SST14	4160	1	0.9295	3866.5	10	SST18	4160	1	0.9317	3876.0
11	14	480	1	0.7972	382.6	12	10	480	1	0.9130	438.2
13	1C	480	1	0.7800	374.4	14	12B	4160	1	0.9299	3868.2
15	SST16	4160	1	0.9287	3863.4	16	SST17	4160	1	0.9288	3863.8
17	16	480	1	0.8775	421.2	18	17	480	1	0.8927	428.6
19	1D	480	1	0.8661	415.7	21	11A	4160	1	0.9322	3877.9
22	11B	4160	1	0.9298	3868.0	23	SST13	4160	1	0.9321	3877.4
24	SST15	4160	1	0.9296	3867.2	25	13	480	1	0.8963	430.2
26	15	480	1	0.8849	424.8	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-6A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9550	32.9
7	T12INT	4160	1	0.9538	3967.8	8	12A	4160	1	0.9419	3918.2
9	SST14	4160	1	0.9404	3911.9	10	SST18	4160	1	0.9414	3916.2
11	14	480	1	0.8757	420.3	12	18	480	1	0.9229	443.0
13	1C	430	1	0.8602	412.9	14	12B	4160	1	0.9351	3890.0
15	SST16	4160	1	0.9339	3885.2	16	SST17	4160	1	0.9340	3885.6
17	16	480	1	0.8830	423.9	18	17	480	1	0.8984	431.2
19	1D	480	1	0.8717	418.4	21	11A	4160	1	0.9418	3918.1
22	11B	4160	1	0.9350	3889.8	23	SST13	4160	1	0.9417	3917.5
24	SST15	4160	1	0.9349	3889.0	25	13	480	1	0.9064	435.1
26	15	480	1	0.8904	427.4	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-7

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9804	33.8
7	T12INT	4160	1	0.9791	4073.2	8	12A	4160	1	0.9629	4005.8
9	SST14	4160	1	0.9601	3994.2	10	SST18	4160	1	0.9624	4003.8
11	14	480	1	0.8274	397.2	12	18	480	1	0.9443	453.3
13	1C	480	1	0.8109	389.2	14	12B	4160	1	0.9609	3997.5
15	SST16	4160	1	0.9598	3992.9	16	SST17	4160	1	0.9599	3993.3
17	16	480	1	0.9105	437.0	18	17	480	1	0.9253	444.1
19	1D	480	1	0.8995	431.8	21	11A	4160	1	0.9629	4005.6
22	11B	4160	1	0.9609	3997.3	23	SST13	4160	1	0.9628	4005.1
24	SST15	4160	1	0.9607	3996.6	25	13	480	1	0.9282	445.6
26	15	480	1	0.9176	440.5	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-7A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.7855	34.0
7	T12INT	4160	1	0.9844	4095.0	8	12A	4160	1	0.9729	4047.1
9	SST14	4160	1	0.9714	4040.9	10	SST18	4160	1	0.9724	4045.1
11	14	480	1	0.9084	436.0	12	10	480	1	0.9545	458.1
13	1C	480	1	0.8935	428.9	14	12B	4160	1	0.9663	4019.8
15	SST16	4160	1	0.9652	4015.2	16	SST17	4160	1	0.9653	4015.6
17	16	480	1	0.9162	439.8	18	17	480	1	0.9309	446.8
19	1D	480	1	0.9053	434.5	21	11A	4160	1	0.9728	4047.0
22	11B	4160	1	0.9662	4019.6	23	SST13	4160	1	0.9727	4046.4
24	SST15	4160	1	0.9661	4018.8	25	13	480	1	0.9386	450.5
26	15	480	1	0.9233	443.2	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
-----	------	-------	------	-------	-------	-----	------	-------	------	-------	-------

\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE DFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: DFTS- 2-8

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0012	34.5
7	T12INT	4160	1	1.0000	4159.9	8	12A	4160	1	0.9838	4092.8
9	SST14	4160	1	0.9811	4081.2	10	SST18	4160	1	0.9834	4090.8
11	14	480	1	0.8479	407.0	12	18	480	1	0.9657	463.5
13	1C	480	1	0.8319	399.3	14	12B	4160	1	0.9822	4086.0
15	SST16	4160	1	0.9811	4081.4	16	SST17	4160	1	0.9812	4081.8
17	16	480	1	0.9330	447.8	18	17	480	1	0.9474	454.8
19	1D	480	1	0.9223	442.7	21	11A	4160	1	0.9838	4092.7
22	11B	4160	1	0.9822	4085.7	23	SST13	4160	1	0.9837	4092.2
24	SST15	4160	1	0.9820	4085.0	25	13	480	1	0.9500	456.0
26	15	480	1	0.9399	451.2	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 350 SIP on Bus 14.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-8A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	1.0064	34.7
7	T12INT	4160	1	1.0053	4182.2	8	12A	4160	1	0.9940	4135.2
9	SST14	4160	1	0.9926	4129.2	10	SST18	4160	1	0.9936	4133.3
11	14	480	1	0.9307	446.7	12	18	480	1	0.9761	468.5
13	1C	480	1	0.9161	439.7	14	12B	4160	1	0.9877	4108.8
15	SST16	4160	1	0.9866	4104.3	16	SST17	4160	1	0.9867	4104.7
17	16	480	1	0.9388	450.6	18	17	480	1	0.9531	457.5
19	1D	480	1	0.9282	445.5	21	11A	4160	1	0.9940	4135.1
22	11B	4160	1	0.9876	4108.6	23	SST13	4160	1	0.9939	4134.6
24	SST15	4160	1	0.9875	4107.9	25	13	480	1	0.9605	461.1
26	15	480	1	0.9457	453.9	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.





ENTER VMAX, VMIN

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-9

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.8389	28.9
7	T12INT	4160	1	0.8349	3473.2	8	12A	4160	1	0.7547	3139.4
9	SST14	4160	1	0.7530	3132.5	10	SST18	4160	1	0.7540	3136.8
11	14	480	1	0.6821	327.4	12	18	480	1	0.7306	350.7
13	1C	480	1	0.6620	317.7	14	12B	4160	1	0.8131	3382.7
15	SST16	4160	1	0.8118	3377.0	16	SST17	4160	1	0.8119	3377.6
17	16	480	1	0.7516	360.8	18	17	480	1	0.7702	369.7
19	1D	480	1	0.7382	354.3	21	11A	4160	1	0.7544	3138.2
22	11B	4160	1	0.8131	3382.4	23	SST13	4160	1	0.7542	3137.5
24	SST15	4160	1	0.8129	3381.5	25	13	480	1	0.7088	340.2
26	15	480	1	0.7608	365.2	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (DEELINE TRANSIENT STARTUP LOADS) TABLE; OFTS- 2-9A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9015	31.1
7	T12INT	4160	1	0.8999	3743.7	8	12A	4160	1	0.8789	3656.3
9	SST14	4160	1	0.8775	3650.6	10	SST18	4160	1	0.8784	3654.1
11	14	480	1	0.8189	393.1	12	18	480	1	0.8585	412.1
13	1C	480	1	0.8022	385.1	14	12B	4160	1	0.8779	3660.4
15	SST16	4160	1	0.8787	3655.3	16	SST17	4160	1	0.8788	3655.8
17	16	480	1	0.8240	375.5	18	17	480	1	0.8406	403.5
19	1D	480	1	0.8118	389.7	21	11A	4160	1	0.8789	3656.0
22	11B	4160	1	0.8779	3660.2	23	SST13	4160	1	0.8787	3655.4
24	SST15	4160	1	0.8797	3659.4	25	13	480	1	0.8406	403.5
26	15	480	1	0.8321	399.4	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE DEIS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: DEIS-2-10

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.8762	30.2
7	T12INT	4160	1	0.8721	3628.0	8	12A	4160	1	0.7896	3284.6
9	SST14	4160	1	0.7880	3278.0	10	SST18	4160	1	0.7890	3282.1
11	14	480	1	0.7209	346.0	12	18	480	1	0.7666	368.0
13	1C	480	1	0.7017	336.8	14	12B	4160	1	0.8514	3541.7
15	SST16	4160	1	0.8501	3536.4	16	SST17	4160	1	0.8502	3536.9
17	16	480	1	0.7932	380.7	18	17	480	1	0.8106	389.1
19	1D	480	1	0.7805	374.7	21	11A	4160	1	0.7893	3283.3
22	11B	4160	1	0.8513	3541.5	23	SST13	4160	1	0.7891	3282.6
24	SST15	4160	1	0.8511	3540.6	25	13	480	1	0.7460	358.1
26	15	480	1	0.8017	384.8	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--ESS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-10A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9410	32.5
7	T12INT	4160	1	0.9326	3908.5	8	12A	4160	1	0.9187	3821.6
9	SST14	4160	1	0.9174	3816.2	10	SST18	4160	1	0.9182	3817.5
11	14	480	1	0.8617	413.6	12	18	480	1	0.8991	431.6
13	1C	480	1	0.8459	406.0	14	12B	4160	1	0.9205	3829.3
15	SST16	4160	1	0.9193	3824.5	16	SST17	4160	1	0.9194	3824.9
17	16	480	1	0.8675	416.4	18	17	480	1	0.8832	423.9
19	1D	480	1	0.8560	410.9	21	11A	4160	1	0.9186	3821.4
22	11B	4160	1	0.9205	3829.1	23	SST13	4160	1	0.9185	3820.8
24	SST15	4160	1	0.9203	3828.3	25	13	480	1	0.8821	423.4
26	15	480	1	0.8751	420.0	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFIS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFIS-2-11

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9045	31.2
7	J12INT	4160	1	0.9004	3745.6	8	12A	4160	1	0.8160	3394.5
9	SST14	4160	1	0.8145	3388.3	10	SST18	4160	1	0.8154	3392.2
11	14	480	1	0.7501	360.1	12	18	480	1	0.7938	381.0
13	1C	480	1	0.7318	351.3	14	12B	4160	1	0.8804	3662.5
15	SST16	4160	1	0.8792	3657.4	16	SST17	4160	1	0.8793	3657.9
17	16	480	1	0.9245	395.8	18	17	480	1	0.8412	403.8
19	1D	480	1	0.8124	389.9	21	11A	4160	1	0.8157	3393.2
22	11B	4160	1	0.8804	3662.3	23	SST13	4160	1	0.8155	3392.6
24	SST15	4160	1	0.8802	3661.4	25	13	480	1	0.7740	371.5
26	15	480	1	0.8326	399.7	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS- 2-11A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9712	33.5
7	T12INT	4160	1	0.9697	4034.0	8	12A	4160	1	0.9489	3947.5
9	SST14	4160	1	0.9477	3942.3	10	SST18	4160	1	0.9484	3945.5
11	14	480	1	0.8941	429.2	12	18	480	1	0.9300	446.4
13	1C	480	1	0.8787	421.9	14	12B	4160	1	0.9513	3957.5
15	SST16	4160	1	0.9502	3952.0	16	SST17	4160	1	0.9503	3953.2
17	16	480	1	0.9003	432.1	18	17	480	1	0.9153	437.3
19	1D	480	1	0.8892	426.9	21	11A	4160	1	0.9489	3947.3
22	11B	4160	1	0.9513	3957.3	23	SST13	4160	1	0.9487	3946.7
24	SST15	4160	1	0.9511	3956.5	25	13	480	1	0.9137	438.6
26	15	480	1	0.9075	435.6	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-12

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9240	31.9
7	T12INT	4160	1	0.9198	3826.5	8	12A	4160	1	0.8343	3470.6
9	SST14	4160	1	0.8328	3464.5	10	SST18	4160	1	0.8337	3468.2
11	14	480	1	0.7702	369.7	12	18	480	1	0.8126	390.1
13	1C	480	1	0.7524	361.2	14	12B	4160	1	0.9003	3745.4
15	SST16	4160	1	0.8991	3740.4	16	SST17	4160	1	0.8993	3740.9
17	16	480	1	0.8457	406.0	18	17	480	1	0.8621	413.8
19	1B	480	1	0.8341	400.4	21	11A	4160	1	0.8340	3469.2
22	11B	4160	1	0.9003	3745.2	23	SST13	4160	1	0.8338	3468.6
24	SST15	4160	1	0.9001	3744.4	25	13	480	1	0.7933	380.8
26	15	480	1	0.8538	409.8	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 SINHA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFTS (OFFLINE TRANSIENT STARTUP LOADS) TABLE: OFTS-2-12A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9919	34.2
7	T12INT	4160	1	0.9904	4120.2	8	12A	4160	1	0.9697	4034.1
9	SST14	4160	1	0.7635	4027.0	10	SST18	4160	1	0.9693	4032.1
11	14	480	1	0.9163	439.8	12	18	480	1	0.9513	456.6
13	1C	480	1	0.9015	432.7	14	12B	4160	1	0.9725	4045.4
15	SST16	4160	1	0.9714	4040.9	16	SST17	4160	1	0.9715	4041.3
17	16	480	1	0.9227	442.9	18	17	480	1	0.9373	449.9
19	1D	480	1	0.9119	437.7	21	11A	4160	1	0.9697	4033.8
22	11B	4160	1	0.9724	4045.2	23	SST13	4160	1	0.9695	4033.3
24	SST15	4160	1	0.9722	4044.5	25	13	480	1	0.9353	448.9
26	15	480	1	0.9297	446.3	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



BASE CASE: OFSU-1

**OPERATING MODE:**

(1) ONLINE

**OFFLINE**

x

(2) SAFETY DEVICES:

**LIGHT LOAD**

**NORMAL LOAD**

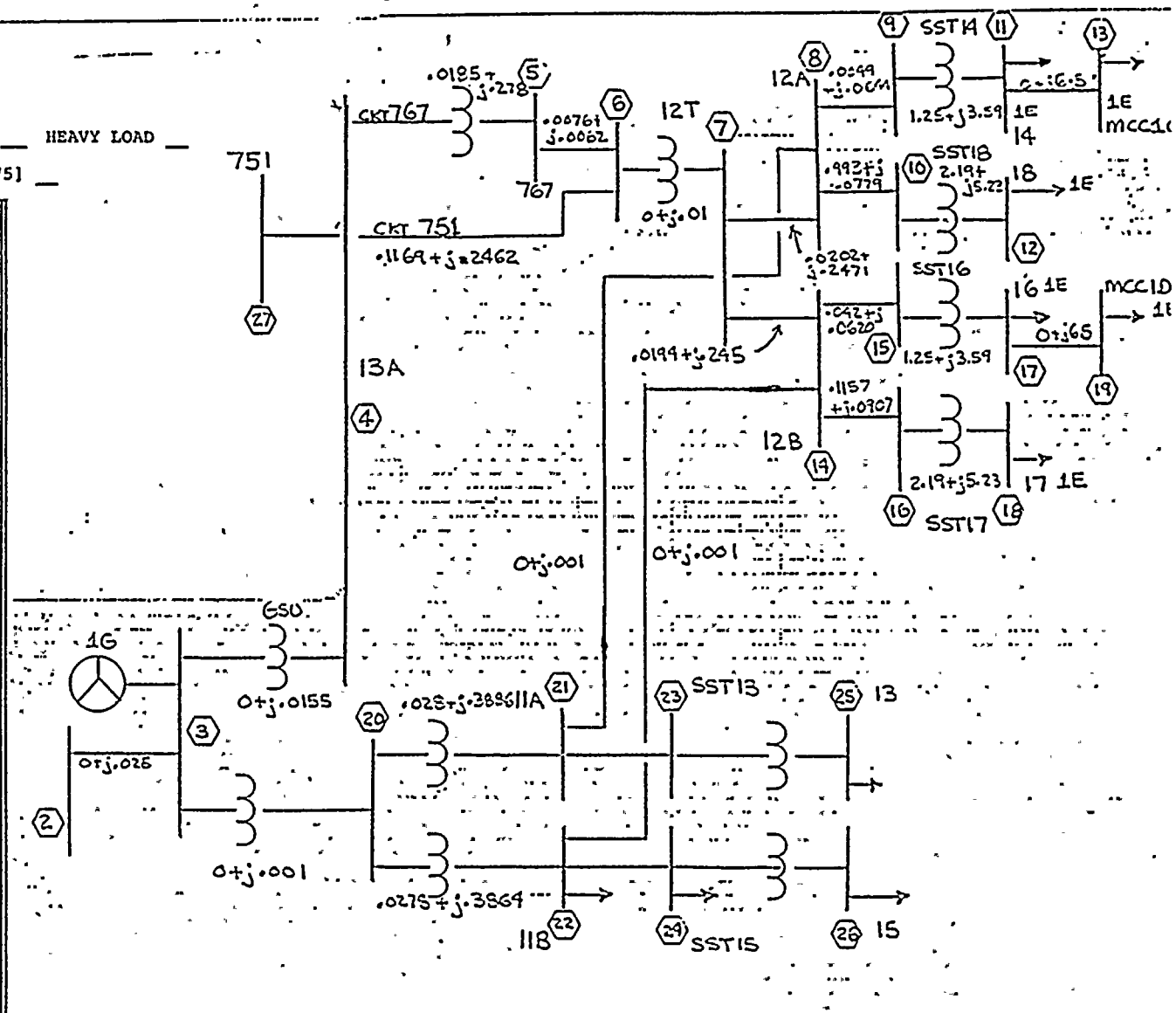
**HEAVY LOAD**

(3) INSERVICE OFFSITE SOURCE:

CIRCUIT 767

CIRCUIT 751

BUS.	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.9	.7
5	0	0	18	.5	.4
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	11	7
9	0	0	22	4	3
10	0	0	23	0	0
11	.9	.7	24	0	0
12	.3	.2	25	.5	.4
13	.3	.2	26	.6	.5
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU-1-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.8364	28.9
6	12T	34.5	1	0.8313	28.7	7	T12INT	4160	1	0.8265	3438.3
8	12A	4160	1	0.7888	3281.3	9	SST14	4160	1	0.7872	3274.8
10	SST18	4160	1	0.7882	3278.9	11	14	480	1	0.7200	345.6
12	18	480	1	0.7658	367.6	13	1C	480	1	0.7009	336.4
14	12B	4160	1	0.7438	3094.3	15	SST16	4160	1	0.7423	3088.0
16	SST17	4160	1	0.7425	3088.7	17	16	480	1	0.6754	324.2
18	17	480	1	0.6963	334.2	19	1D	480	1	0.6604	317.0
21	11A	4160	1	0.7887	3280.8	22	11B	4160	1	0.7435	3093.0
23	SST13	4160	1	0.7885	3280.2	24	SST15	4160	1	0.7433	3092.0
25	13	480	1	0.7454	357.8	26	15	480	1	0.6854	329.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a 50hp motor on Bus 1C.





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 SINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU-1-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9074	31.3
6	12T	34.5	1	0.9041	31.2	7	T12INT	4160	1	0.9019	3751.9
8	12A	4160	1	0.8679	3610.3	9	SST14	4160	1	0.8665	3604.5
10	SST18	4160	1	0.8673	3608.1	11	14	480	1	0.8068	387.3
12	18	480	1	0.8471	406.6	13	1C	480	1	0.7899	377.2
14	12B	4160	1	0.8779	3652.0	15	SST16	4160	1	0.8767	3646.9
16	SST17	4160	1	0.8768	3647.4	17	16	480	1	0.8218	394.5
18	17	480	1	0.8395	402.5	19	1D	480	1	0.8096	388.6
21	11A	4160	1	0.8677	3609.8	22	11B	4160	1	0.8778	3651.7
23	SST13	4160	1	0.8676	3609.2	24	SST15	4160	1	0.8776	3650.9
25	13	480	1	0.8287	397.9	26	15	480	1	0.8299	398.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS)      LABEL: OFSU- 1-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	5	767	34.5	1	0.8531	29.4
6	12T	34.5	1	0.0480	29.3	7	T12INT	4160	1	0.8433	3508.2
8	12A	4160	1	0.8065	3355.0	9	SST14	4160	1	0.8050	3348.6
10	SST18	4160	1	0.8059	3352.6	11	14	480	1	0.7396	355.0
12	18	480	1	0.7841	376.3	13	1C	480	1	0.7210	346.1
14	12B	4160	1	0.7597	3160.4	15	SST16	4160	1	0.7502	3154.3
16	SST17	4160	1	0.7584	3154.9	17	16	480	1	0.6928	332.5
18	17	480	1	0.7133	342.4	19	1D	480	1	0.6702	325.5
21	11A	4160	1	0.8064	3354.5	22	11B	4160	1	0.7594	3159.1
23	SST13	4160	1	0.8062	3353.8	24	SST15	4160	1	0.7592	3158.1
25	13	480	1	0.7642	366.8	26	15	480	1	0.7027	337.3

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU-1-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	5	737	34.5	1	0.9251	31.9
6	12T	34.5	1	0.9219	31.8	7	T12INT	4160	1	0.9197	3825.9
8	12A	4160	1	0.8864	3687.6	9	SST14	4160	1	0.8851	3681.9
10	SST18	4160	1	0.8859	3685.4	11	14	480	1	0.8270	396.9
12	18	480	1	0.8662	415.8	13	1C	480	1	0.8105	389.0
14	12B	4160	1	0.8958	3726.4	15	SST16	4160	1	0.8946	3721.4
16	SST17	4160	1	0.8947	3721.8	17	16	480	1	0.8410	403.7
18	17	480	1	0.8573	411.5	19	1D	480	1	0.8291	398.0
21	11A	4160	1	0.8863	3687.1	22	11B	4160	1	0.8957	3726.1
23	SST13	4160	1	0.8862	3686.5	24	SST15	4160	1	0.8955	3725.3
25	13	480	1	0.8484	407.2	26	15	480	1	0.8487	407.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU- 1-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0450	120.2	5	767	34.5	1	0.0804	30.4
6	12T	34.5	1	0.8754	30.2	7	T12INT	4160	1	0.8706	3621.9
8	12A	4160	1	0.8351	3474.1	9	SST14	4160	1	0.8337	3468.0
10	SST10	4160	1	0.8346	3471.8	11	14	480	1	0.7712	370.2
12	18	480	1	0.8135	390.5	13	1C	480	1	0.7534	361.6
14	12B	4160	1	0.7855	3267.7	15	SST16	4160	1	0.7841	3261.8
16	SST17	4160	1	0.7842	3262.4	17	16	480	1	0.7213	346.2
18	17	480	1	0.7409	355.6	19	1D	480	1	0.7073	339.5
21	11A	4160	1	0.9350	3473.7	22	11B	4160	1	0.7852	3266.4
23	SST13	4160	1	0.9349	3473.0	24	SST15	4160	1	0.7850	3265.4
25	13	480	1	0.7945	381.3	26	15	480	1	0.7307	350.7

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFSU (OFFLINE STARTUP WORST CASE LOADS) LABEL: OFSU-1-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0450	120.2	5	767	34.5	1	0.9542	32.9
6	12T	34.5	1	0.9510	32.8	7	T12INT	4160	1	0.9489	3947.5
8	12A	4160	1	0.9168	3813.8	9	SST14	4160	1	0.9155	3808.4
10	SST18	4160	1	0.9163	3811.7	11	14	480	1	0.8597	412.6
12	18	480	1	0.8772	430.7	13	1C	480	1	0.8439	405.1
14	12B	4160	1	0.9252	3848.9	15	SST16	4160	1	0.9240	3844.0
16	SST17	4160	1	0.9241	3844.4	17	16	480	1	0.8725	418.8
18	17	480	1	0.8880	426.3	19	1D	480	1	0.8610	413.3
21	11A	4160	1	0.9167	3813.4	22	11B	4160	1	0.9251	3848.5
23	SST13	4160	1	0.9165	3812.8	24	SST15	4160	1	0.9249	3847.8
25	13	480	1	0.8801	422.5	26	15	480	1	0.8800	422.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFSU (OFFLINE STARTUP WORST CASE LOADS) TABEL: OFSU- 1-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	0.8961	30.9
6	12T	34.5	1	0.8911	30.7	7	T12INT	4160	1	0.8863	3687.2
8	12A	4160	1	0.8516	3542.8	9	SST14	4160	1	0.8502	3536.9
10	SST18	4160	1	0.8511	3540.5	11	14	480	1	0.7872	378.8
12	18	480	1	0.8305	398.6	13	1C	480	1	0.7717	370.5
14	12B	4160	1	0.8003	3329.3	15	SST16	4160	1	0.7989	3323.5
16	SST17	4160	1	0.7991	3324.1	17	16	480	1	0.7376	354.0
18	17	480	1	0.7566	363.2	19	1D	480	1	0.7239	347.5
21	11A	4160	1	0.8515	3542.3	22	11B	4160	1	0.8000	3327.9
23	SST13	4160	1	0.8514	3541.7	24	SST15	4160	1	0.7998	3327.0
25	13	480	1	0.8118	389.7	26	15	480	1	0.7467	358.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE STARTUP WORST CASE LOADS) LABEL: OFSU- 1-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	0.9708	33.5
6	12T	34.5	1	0.9676	33.4	7	T12INT	4160	1	0.9655	4016.6
8	12A	4160	1	0.9340	3885.4	9	SST14	4160	1	0.9327	3880.1
10	SST18	4160	1	0.9335	3893.4	11	14	480	1	0.8781	421.5
12	18	480	1	0.9148	439.1	13	1C	480	1	0.8627	414.1
14	12B	4160	1	0.9420	3918.5	15	SST16	4160	1	0.9408	3913.8
16	SST17	4160	1	0.9409	3914.2	17	16	480	1	0.8903	427.4
18	17	480	1	0.9055	434.7	19	1D	480	1	0.8791	422.0
21	11A	4160	1	0.9339	3885.0	22	11B	4160	1	0.9419	3918.2
23	SST13	4160	1	0.9338	3884.4	24	SST15	4160	1	0.9417	3917.5
25	13	480	1	0.8981	431.1	26	15	480	1	0.8977	430.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

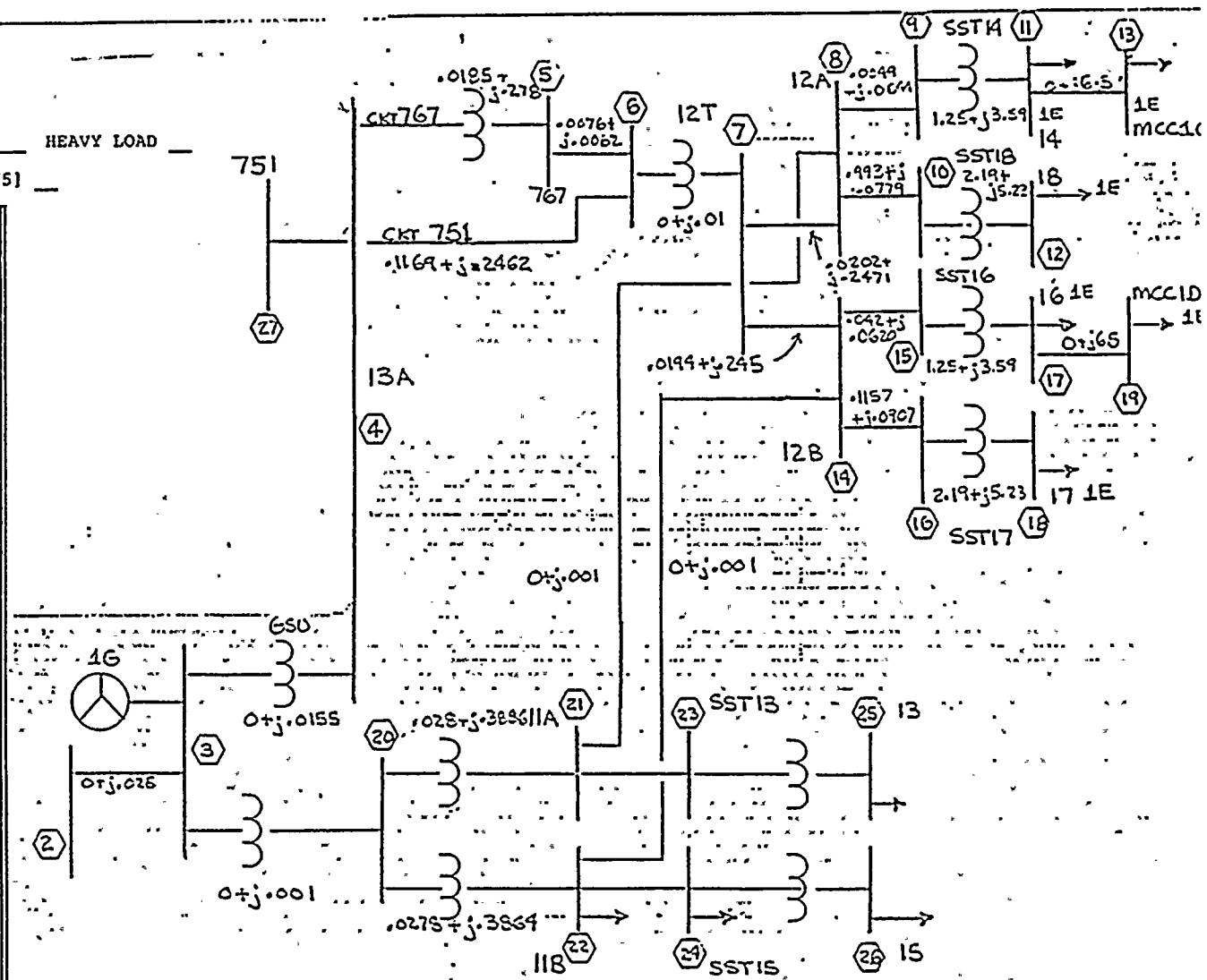
ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

BASE CASE: OF5U-2

OPERATING MODE: (1) ONLINE \_\_\_\_\_ OFFLINE X  
(2) SAFETY BUSES:  
LIGHT LOAD \_\_\_\_\_ NORMAL LOAD \_\_\_\_\_ HEAVY LOAD \_\_\_\_\_  
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767 \_\_\_\_\_ CIRCUIT 751 \_\_\_\_\_

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	-475	-150	15	0	0
3	-475	-150	16	0	0
4	0	0	17	.9	.7
5	0	0	18	.5	.4
6	0	0	19	.2	.1
7	0	0	20	0	0
8	0	0	21	11	9
9	0	0	22	4	3
10	0	0	23	0	0
11	.9	.7	24	0	0
12	.3	.2	25	.5	.4
13	.3	.2	26	.6	.5
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU-2-1

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	3	12T	34.5	1	0.3116	23.0
7	T12INT	4160	1	0.8068	3356.4	8	12A	4160	1	0.7679	3194.7
9	SST14	4160	1	0.7663	3187.9	10	SST18	4160	1	0.7673	3192.1
11	14	480	1	0.6968	334.5	12	18	480	1	0.7443	357.3
13	1C	480	1	0.6770	325.0	14	12B	4160	1	0.7253	3017.4
15	SST16	4160	1	0.7238	3010.9	16	SST17	4160	1	0.7239	3011.6
17	16	480	1	0.6553	314.5	18	17	480	1	0.6765	324.7
19	1D	480	1	0.6401	307.2	21	11A	4160	1	0.7678	3194.1
22	11B	4160	1	0.7250	3016.1	23	SST13	4160	1	0.7677	3193.4
24	SST15	4160	1	0.7248	3015.1	25	13	480	1	0.7232	347.1
26	15	480	1	0.6655	319.4	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU- 2-1A

1 BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.8748	30.2
7	T12INT	4160	1	0.8726	3629.8	8	12A	4160	1	0.8372	3482.7
9	SST14	4160	1	0.8357	3476.7	10	SST18	4160	1	0.8366	3480.4
11	14	480	1	0.7734	371.2	12	18	480	1	0.8156	391.5
13	1C	480	1	0.7557	362.7	14	12B	4160	1	0.8482	3528.6
15	SST16	4160	1	0.8469	3523.2	16	SST17	4160	1	0.8471	3523.7
17	16	480	1	0.7898	379.1	18	17	480	1	0.8073	387.5
19	1D	480	1	0.7771	373.0	21	11A	4160	1	0.8371	3482.3
22	11B	4160	1	0.8481	3528.3	23	SST13	4160	1	0.8369	3481.6
24	SST15	4160	1	0.8479	3527.4	25	13	480	1	0.7966	382.4
26	15	480	1	0.7983	383.2	27	751	34.5	1	0.9620	33.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU- 2-2

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.8506	29.3
7	T12INT	4160	1	0.8458	3518.7	8	12A	4160	1	0.8092	3366.1
9	SST14	4160	1	0.8076	3359.7	10	SST18	4160	1	0.8086	3363.7
11	14	480	1	0.7426	356.4	12	18	480	1	0.7868	377.7
13	1C	480	1	0.7241	347.6	14	12B	4160	1	0.7621	3170.4
15	SST16	4160	1	0.7607	3164.3	16	SST17	4160	1	0.7608	3165.0
17	16	480	1	0.6955	333.8	18	17	480	1	0.7159	343.6
19	1D	480	1	0.6809	326.8	21	11A	4160	1	0.8090	3365.6
22	11B	4160	1	0.7618	3169.2	23	SST13	4160	1	0.8039	3364.9
24	SST15	4160	1	0.7616	3168.2	25	13	480	1	0.7670	368.2
26	15	480	1	0.7053	338.6	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM---PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABCL: OFSU- 2-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9161	31.6
7	T12INT	4160	1	0.9139	3801.8	8	12A	4160	1	0.8804	3662.3
9	SST14	4160	1	0.8790	3656.6	10	SST13	4160	1	0.8790	3660.1
11	14	480	1	0.8204	393.8	12	18	480	1	0.8599	412.8
13	1C	480	1	0.8038	385.8	14	12B	4160	1	0.8900	3702.2
15	SST16	4160	1	0.8887	3697.1	16	SST17	4160	1	0.8888	3697.6
17	16	480	1	0.8348	400.7	18	17	480	1	0.8512	408.6
19	1D	480	1	0.8228	394.9	21	11A	4160	1	0.8803	3661.9
22	11B	4160	1	0.8899	3701.9	23	SST13	4160	1	0.8801	3661.3
24	SST15	4160	1	0.8897	3701.1	25	13	480	1	0.8420	404.2
26	15	480	1	0.8427	404.5	27	751	34.5	1	1.0000	34.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFSU (OFFLINE STARTUP WORST CASE LOADS) LABEL: OFSU- 2-3

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.8800	30.4
7	T12INT	4160	1	0.8752	3640.9	8	12A	4160	1	0.8399	3494.2
9	SST14	4160	1	0.8385	3488.1	10	SST18	4160	1	0.8394	3491.8
11	14	480	1	0.7764	372.7	12	18	480	1	0.8185	392.9
13	1C	480	1	0.7588	364.2	14	12B	4160	1	0.7898	3285.5
15	SST16	4160	1	0.7884	3279.6	16	SST17	4160	1	0.7885	3280.2
17	16	480	1	0.7260	348.5	18	17	480	1	0.7454	357.8
19	1D	480	1	0.7121	341.8	21	11A	4160	1	0.8398	3493.7
22	11B	4160	1	0.7895	3284.1	23	SST13	4160	1	0.8377	3493.1
24	SST15	4160	1	0.7892	3283.2	25	13	480	1	0.7995	383.8
26	15	480	1	0.7353	352.9	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/C  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU-2-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9472	32.7
7	T12INT	4160	1	0.9451	3931.5	8	12A	4160	1	0.9128	3797.3
9	SST14	4160	1	0.9115	3791.8	10	SST18	4160	1	0.9123	3795.1
11	14	480	1	0.8554	410.6	12	18	480	1	0.8931	429.7
13	1C	480	1	0.8375	403.0	14	12B	4160	1	0.9214	3832.9
15	SST16	4160	1	0.9202	3820.1	16	SST17	4160	1	0.9203	3820.5
17	16	480	1	0.8684	416.8	18	17	480	1	0.8841	424.3
19	1D	480	1	0.8569	411.3	21	11A	4160	1	0.9127	3796.8
22	11B	4160	1	0.9213	3832.6	23	SST13	4160	1	0.9126	3796.2
24	SST15	4160	1	0.9211	3831.8	25	13	480	1	0.8760	420.5
26	15	480	1	0.8760	420.5	27	751	34.5	1	1.0290	35.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) TABEL: OFSU- 2-4

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9002	31.1
7	T12INT	4160	1	0.8955	3725.1	8	12A	4160	1	0.8611	3582.3
9	SST14	4160	1	0.8597	3576.5	10	SST18	4160	1	0.8606	3580.1
11	14	480	1	0.7995	383.8	12	18	480	1	0.8402	403.3
13	1C	480	1	0.7824	375.6	14	12B	4160	1	0.8089	3365.0
15	SST16	4160	1	0.8075	3359.3	16	SST17	4160	1	0.8077	3359.9
17	16	480	1	0.7470	358.6	18	17	480	1	0.7657	367.5
19	1B	480	1	0.7335	352.1	21	11A	4160	1	0.8610	3581.9
22	11B	4160	1	0.8086	3363.6	23	SST13	4160	1	0.8609	3581.3
24	SST15	4160	1	0.8083	3362.7	25	13	480	1	0.8218	394.5
26	15	480	1	0.7559	362.8	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

The bus voltages shown above represent the lowest levels reached when starting a RCP on Bus 11A.



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFSU (OFFLINE SARTUP WORST CASE LOADS) LABEL: OFSU-2-4A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	6	12T	34.5	1	0.9686	33.4
7	T12INT	4160	1	0.9666	4020.9	8	12A	4160	1	0.9351	3890.1
9	SST14	4160	1	0.9338	3884.8	10	SST18	4160	1	0.9346	3888.1
11	14	480	1	0.8793	422.1	12	18	480	1	0.9160	439.7
13	1C	480	1	0.8639	414.7	14	12B	4160	1	0.9430	3922.9
15	SST16	4160	1	0.9419	3918.1	16	SST17	4160	1	0.9420	3918.6
17	16	480	1	0.8914	427.9	18	17	480	1	0.9063	435.2
19	1D	480	1	0.8802	422.5	21	11A	4160	1	0.9350	3889.7
22	11B	4160	1	0.9429	3922.6	23	SST13	4160	1	0.9349	3889.1
24	SST15	4160	1	0.9427	3921.8	25	13	480	1	0.8992	431.6
26	15	480	1	0.8988	431.4	27	751	34.5	1	1.0490	36.2

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

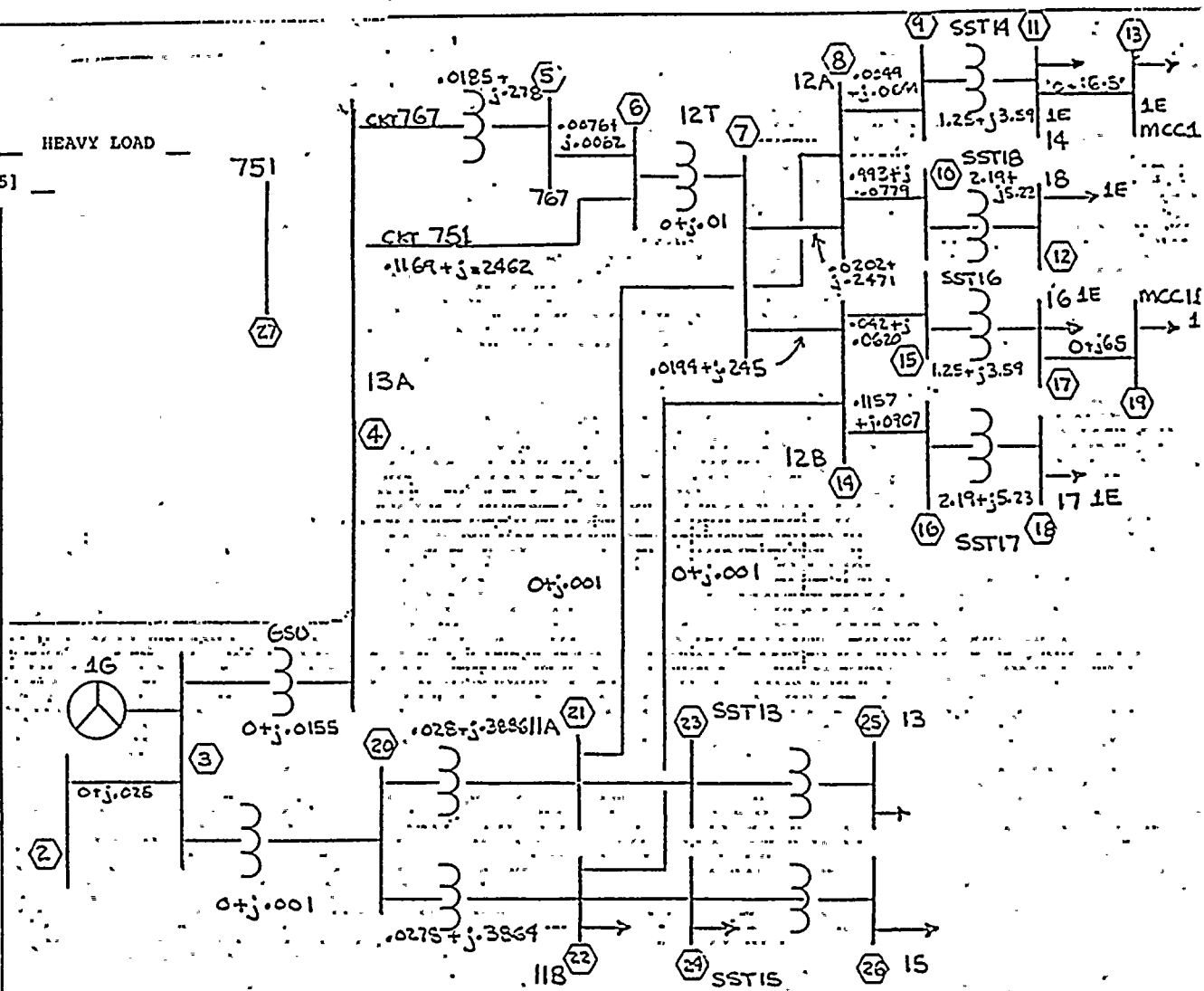
ACTIVITY?

The bus voltages shown above represent the recovered levels after the motor has reached rated speed.

BASE CASE: OFNHS-1

OPERATING MODE: (1) ONLINE ☐ OFFLINE ☒  
 (2) SAFETY BUSES: LIGHT LOAD ☐ NORMAL LOAD ☐ HEAVY LOAD ☐  
 (3) INSERVICE OFFSITE SOURCE: CIRCUIT 767 ☐ CIRCUIT 751 ☐

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	0	0	15	0	0
3	0	0	16	0	0
4	0	0	17	0.3	0.2
5	0	0	18	0.3	0.2
6	0	0	19	0.2	0.1
7	0	0	20	0	0
8	0	0	21	12	9
9	0	0	22	10	7.5
10	0	0	23	3	2.2
11	0.5	0.4	24	0	0
12	0.4	0.3	25	0.3	0.2
13	0.3	0.2	26	0.3	0.2
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-1-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.8987	31.0
6	12T	34.5	1	0.8949	30.9	7	T12INT	4160	1	0.8924	3712.6
8	12A	4160	1	0.8593	3574.6	9	SST14	4160	1	0.8584	3570.8
10	SST18	4160	1	0.8585	3571.5	11	14	480	1	0.8194	393.3
12	18	480	1	0.8289	397.8	13	1C	480	1	0.8028	385.3
14	12B	4160	1	0.8609	3581.3	15	SST16	4160	1	0.8604	3579.1
16	SST17	4160	1	0.8603	3578.7	17	16	480	1	0.8375	402.0
18	17	480	1	0.8399	403.1	19	1D	480	1	0.8255	396.3
21	11A	4160	1	0.8592	3574.2	22	11B	4160	1	0.8608	3580.8
23	SST13	4160	1	0.8591	3573.8	24	SST15	4160	1	0.8607	3580.5
25	13	480	1	0.8387	402.6	26	15	480	1	0.8403	403.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-1-1B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9127	31.5
6	12T	34.5	1	0.9096	31.4	7	T12INT	4160	1	0.9076	3775.6
8	12A	4160	1	0.8801	3661.1	9	SST14	4160	1	0.8792	3657.4
10	SST18	4160	1	0.8793	3658.0	11	14	480	1	0.8413	403.8
12	18	480	1	0.8504	408.2	13	1C	480	1	0.8251	396.0
14	12B	4160	1	0.8816	3667.5	15	SST16	4160	1	0.8811	3665.4
16	SST17	4160	1	0.8810	3665.0	17	16	480	1	0.8588	412.2
18	17	480	1	0.8611	413.3	19	1D	480	1	0.8472	406.6
21	11A	4160	1	0.8800	3660.8	22	11B	4160	1	0.8815	3667.2
23	SST13	4160	1	0.8799	3660.4	24	SST15	4160	1	0.8814	3666.8
25	13	480	1	0.8600	412.8	26	15	480	1	0.8616	413.6

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS- 1-1C

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0000	115.0	5	767	34.5	1	0.9547	32.9
6	12T	34.5	1	0.9536	32.9	7	T12INT	4160	1	0.9530	3964.3
8	12A	4160	1	0.9432	3923.5	9	SST14	4160	1	0.9423	3920.1
10	SST18	4160	1	0.9425	3920.6	11	14	480	1	0.9073	435.5
12	18	480	1	0.9156	439.5	13	1C	480	1	0.8923	428.3
14	12B	4160	1	0.9444	3928.6	15	SST16	4160	1	0.9439	3926.6
16	SST17	4160	1	0.9438	3926.2	17	16	480	1	0.9232	443.1
18	17	480	1	0.9253	444.1	19	1D	480	1	0.9124	438.0
21	11A	4160	1	0.9431	3923.4	22	11B	4160	1	0.9443	3928.5
23	SST13	4160	1	0.9431	3923.1	24	SST15	4160	1	0.9443	3928.1
25	13	480	1	0.9246	443.8	26	15	480	1	0.9258	444.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS NOT SHUTDOWN) TABLE:OFNHS-1-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	5	267	34.5	1	0.9173	31.6
6	12T	34.5	1	0.9136	31.5	7	T12INT	4160	1	0.9113	3790.8
8	12A	4160	1	0.8789	3656.2	9	SST14	4160	1	0.8780	3652.5
10	SST18	4160	1	0.8782	3653.1	11	14	480	1	0.8400	403.2
12	18	480	1	0.8492	407.6	13	1C	480	1	0.8238	395.4
14	12B	4160	1	0.8805	3662.9	15	SST16	4160	1	0.8800	3660.8
16	SST17	4160	1	0.8799	3660.4	17	16	480	1	0.8577	411.7
18	17	480	1	0.8600	412.8	19	1D	480	1	0.8460	406.1
21	11A	4160	1	0.8788	3655.8	22	11B	4160	1	0.8804	3662.5
23	SST13	4160	1	0.8787	3655.5	24	SST15	4160	1	0.8803	3662.1
25	13	480	1	0.8588	412.2	26	15	480	1	0.8604	413.0

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-1-2B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	5	767	34.5	1	0.9310	32.1
6	12T	34.5	1	0.9279	32.0	7	T12INT	4160	1	0.9259	3851.9
8	12A	4160	1	0.8991	3740.4	9	SST14	4160	1	0.8983	3736.8
10	SST18	4160	1	0.8984	3737.4	11	14	480	1	0.8613	413.4
12	18	480	1	0.8702	417.7	13	1C	480	1	0.8455	405.8
14	12B	4160	1	0.9006	3746.6	15	SST16	4160	1	0.9001	3744.5
16	SST17	4160	1	0.9000	3744.1	17	16	480	1	0.8783	421.6
18	17	480	1	0.8806	422.7	19	1D	480	1	0.8670	416.1
21	11A	4160	1	0.8991	3740.1	22	11B	4160	1	0.9005	3746.2
23	SST13	4160	1	0.8990	3739.7	24	SST15	4160	1	0.9004	3745.8
25	13	480	1	0.8795	422.2	26	15	480	1	0.8810	422.9

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



# P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E

GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS

CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-1-2C

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0170	117.0	5	767	34.5	1	0.9717	33.5
6	12T	34.5	1	0.9706	33.5	7	T12INT	4160	1	0.9700	4035.0
8	12A	4160	1	0.9603	3995.0	9	SST14	4160	1	0.9595	3991.6
10	SST18	4160	1	0.9597	3992.2	11	14	480	1	0.9252	444.1
12	18	480	1	0.9333	448.0	13	1C	480	1	0.9106	437.1
14	12B	4160	1	0.9615	3999.9	15	SST16	4160	1	0.9611	3998.0
16	SST17	4160	1	0.9610	3997.6	17	16	480	1	0.9408	451.6
18	17	480	1	0.9428	452.6	19	1D	480	1	0.9302	446.5
21	11A	4160	1	0.9603	3994.9	22	11B	4160	1	0.9615	3999.8
23	SST13	4160	1	0.9602	3994.6	24	SST15	4160	1	0.9614	3999.5
25	13	480	1	0.9421	452.2	26	15	480	1	0.9433	452.8

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-1-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	0.9647	33.3
6	12T	34.5	1	0.9612	33.2	7	T12INT	4160	1	0.9590	3989.4
8	12A	4160	1	0.9284	3862.1	9	SST14	4160	1	0.9276	3858.6
10	SST18	4160	1	0.9277	3859.2	11	14	480	1	0.8919	428.1
12	18	480	1	0.9004	432.2	13	1C	480	1	0.8767	420.8
14	12B	4160	1	0.9299	3868.4	15	SST16	4160	1	0.9294	3866.4
16	SST17	4160	1	0.9293	3866.0	17	16	480	1	0.9084	436.0
18	17	480	1	0.9105	437.1	19	1D	480	1	0.8974	430.8
21	11A	4160	1	0.9283	3861.7	22	11B	4160	1	0.9298	3868.0
23	SST13	4160	1	0.9282	3861.4	24	SST15	4160	1	0.9297	3867.7
25	13	480	1	0.9094	436.5	26	15	480	1	0.9109	437.3

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?





P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE: OFNHS-1-3B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	0.9773	33.7
6	12T	34.5	1	0.9744	33.6	7	T12INT	4160	1	0.9725	4045.7
8	12A	4160	1	0.9471	3939.8	9	SST14	4160	1	0.9463	3936.4
10	SST18	4160	1	0.9464	3937.0	11	14	480	1	0.9114	437.5
12	18	480	1	0.9197	441.4	13	1C	480	1	0.8965	430.3
14	12B	4160	1	0.9485	3945.6	15	SST16	4160	1	0.9480	3943.6
16	SST17	4160	1	0.9479	3943.2	17	16	480	1	0.9274	445.2
18	17	480	1	0.9295	446.2	19	1D	480	1	0.9167	440.0
21	11A	4160	1	0.9470	3939.5	22	11B	4160	1	0.9484	3945.3
23	SST13	4160	1	0.9469	3939.2	24	SST15	4160	1	0.9483	3944.9
25	13	480	1	0.9285	445.7	26	15	480	1	0.9299	446.4

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS NOT SHUTDOWN) TABLE: OFNHS-1-3C

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
4	13A	115	1	1.0610	122.0	5	767	34.5	1	1.0157	35.0
6	12T	34.5	1	1.0147	35.0	7	T12INT	4160	1	1.0140	4218.3
8	12A	4160	1	1.0049	4180.2	9	SST14	4160	1	1.0041	4177.0
10	SST18	4160	1	1.0042	4177.5	11	14	480	1	0.9714	466.3
12	18	480	1	0.9791	470.0	13	1C	480	1	0.9575	459.6
14	12B	4160	1	1.0060	4185.0	15	SST16	4160	1	1.0056	4183.1
16	SST17	4160	1	1.0055	4182.7	17	16	480	1	0.9862	473.4
18	17	480	1	0.9882	474.3	19	1D	480	1	0.9762	468.6
21	11A	4160	1	1.0048	4180.1	22	11B	4160	1	1.0060	4184.9
23	SST13	4160	1	1.0048	4179.8	24	SST15	4160	1	1.0059	4184.5
25	13	480	1	0.9874	474.0	26	15	480	1	0.9886	474.5

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

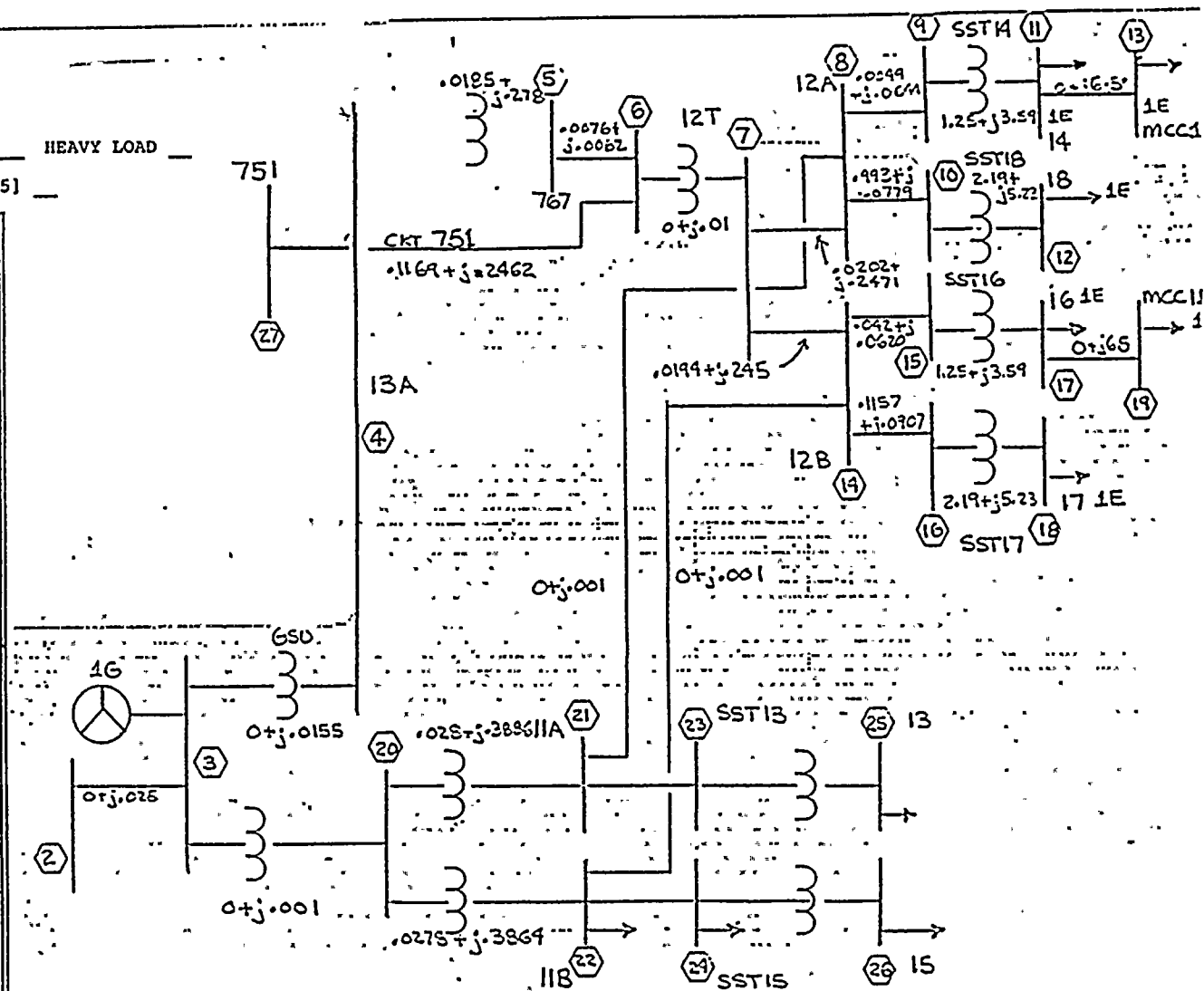
ACTIVITY?



BASE CASE: OFNHS-2

OPERATING MODE: (1) ONLINE    OFFLINE   X    
(2) SAFETY BUSES:  
LIGHT LOAD            NORMAL LOAD    HEAVY LOAD     
(3) INSERVICE OFFSITE SOURCE:  
CIRCUIT 767    CIRCUIT 751   

BUS	P (MW)	Q (MVAR)	BUS	P (MW)	Q (MVAR)
2	0	0	15	0	0
3	0	0	16	0	0
4	0	0	17	0.3	0.2
5	0	0	18	0.3	0.2
6	0	0	19	0.2	0.1
7	0	0	20	0	0
8	0	0	21	<del>12</del> <del>10</del> <del>3</del>	<del>9</del> <del>7.5</del> <del>2.2</del>
9	0	0	22	<del>12</del> <del>10</del> <del>3</del>	<del>9</del> <del>7.5</del> <del>2.2</del>
10	0	0	23	0	0
11	0.5	0.4	24	0	0
12	0.4	0.3	25	0.3	0.2
13	0.3	0.2	26	0.3	0.2
14	0	0	27	0	0



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS- 2-1A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	0.9048	31.2	7	T12INT	4160	1	0.9024	3754.0
8	12A	4160	1	0.8697	3617.9	9	SST14	4160	1	0.8688	3614.2
10	SST18	4160	1	0.8689	3614.8	11	14	480	1	0.8304	398.6
12	18	480	1	0.8396	403.0	13	1C	480	1	0.8139	390.7
14	12B	4160	1	0.8713	3624.5	15	SST16	4160	1	0.8707	3622.3
16	SST17	4160	1	0.8706	3621.9	17	16	480	1	0.8482	407.1
18	17	480	1	0.8505	408.2	19	1D	480	1	0.8364	401.5
21	11A	4160	1	0.8696	3617.5	22	11B	4160	1	0.8712	3624.0
23	SST13	4160	1	0.8695	3617.1	24	SST15	4160	1	0.8711	3623.7
25	13	480	1	0.8493	407.7	26	15	480	1	0.8510	408.5
27	751	34.5	1	1.0000	34.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFNHS (OFFLINE NORMAL LOADS NOT SHUTDOWN) TABLE:OFNHS-2-1B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	0.9217	31.8	7	T12INT	4160	1	0.9197	3826.0
8	12A	4160	1	0.8927	3713.4	9	SST14	4160	1	0.8918	3709.8
10	SST18	4160	1	0.8919	3710.4	11	14	480	1	0.8545	410.1
12	18	480	1	0.8635	414.5	13	1C	480	1	0.8386	402.5
14	12B	4160	1	0.8942	3719.7	15	SST16	4160	1	0.8937	3717.6
16	SST17	4160	1	0.8936	3717.2	17	16	480	1	0.8717	418.4
18	17	480	1	0.8740	419.5	19	1D	480	1	0.8602	412.9
21	11A	4160	1	0.8926	3713.1	22	11B	4160	1	0.8941	3719.3
23	SST13	4160	1	0.8925	3712.7	24	SST15	4160	1	0.8940	3719.0
25	13	480	1	0.8729	419.0	26	15	480	1	0.8744	419.7
27	751	34.5	1	1.0000	34.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?



P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-2-1C

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	0.9731	33.6	7	I12INT	4160	1	0.9725	4045.4
8	12A	4160	1	0.9629	4005.5	9	SST14	4160	1	0.9621	4002.2
10	SST18	4160	1	0.9622	4002.7	11	14	480	1	0.9278	445.3
12	18	480	1	0.9359	449.3	13	1C	480	1	0.9132	438.4
14	12B	4160	1	0.9640	4010.2	15	SST16	4160	1	0.9635	4008.3
16	SST17	4160	1	0.9634	4007.9	17	16	480	1	0.9433	452.8
18	17	480	1	0.9453	453.8	19	1D	480	1	0.9327	447.7
21	11A	4160	1	0.9628	4005.4	22	11B	4160	1	0.9640	4010.1
23	SST13	4160	1	0.9628	4005.1	24	SST15	4160	1	0.9639	4009.8
25	13	480	1	0.9447	453.4	26	15	480	1	0.9458	454.0
27	751	34.5	1	1.0000	34.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. 1. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-2-2A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	0.9376	32.3	7	T12INT	4160	1	0.9353	3890.9
8	12A	4160	1	0.9039	3760.0	9	SST14	4160	1	0.9030	3756.5
10	SST18	4160	1	0.9031	3757.1	11	14	480	1	0.8662	415.8
12	18	480	1	0.8750	420.0	13	1C	480	1	0.8505	408.3
14	12B	4160	1	0.9055	3766.7	15	SST16	4160	1	0.9050	3764.6
16	SST17	4160	1	0.9049	3764.2	17	16	480	1	0.8833	424.0
18	17	480	1	0.8855	425.1	19	1D	480	1	0.8720	418.6
21	11A	4160	1	0.9038	3759.6	22	11B	4160	1	0.9054	3766.3
23	SST13	4160	1	0.9037	3759.3	24	SST15	4160	1	0.9053	3765.9
25	13	480	1	0.8843	424.5	26	15	480	1	0.8860	425.3
27	751	34.5	1	1.0290	35.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-2-2B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	0.9536	32.9	7	T12INT	4160	1	0.9517	3959.0
8	12A	4160	1	0.9256	3850.6	9	SST14	4160	1	0.9248	3847.1
10	SST18	4160	1	0.9249	3847.7	11	14	480	1	0.8890	426.7
12	18	480	1	0.8975	430.8	13	1C	480	1	0.8737	419.4
14	12B	4160	1	0.9271	3856.7	15	SST16	4160	1	0.9266	3854.7
16	SST17	4160	1	0.9265	3854.3	17	16	480	1	0.9055	434.6
18	17	480	1	0.9077	435.7	19	1D	480	1	0.8945	429.4
21	11A	4160	1	0.9255	3850.2	22	11B	4160	1	0.9270	3856.3
23	SST13	4160	1	0.9255	3849.9	24	SST15	4160	1	0.9269	3856.0
25	13	480	1	0.9066	435.2	26	15	480	1	0.9081	435.9
27	751	34.5	1	1.0290	35.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
 GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
 CASE OFNHS (OFFLINE NORMAL LOADS NOT SHUTDOWN) TABLE: OFNHS- 2-2C

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	1.0030	34.6	7	T12INT	4160	1	1.0023	4169.7
8	12A	4160	1	0.9931	4131.2	9	SST14	4160	1	0.9923	4128.0
10	SST18	4160	1	0.9924	4128.5	11	14	480	1	0.9592	460.4
12	18	480	1	0.9670	464.2	13	1C	480	1	0.9451	453.7
14	12B	4160	1	0.9941	4135.6	15	SST16	4160	1	0.9937	4133.7
16	SST17	4160	1	0.9936	4133.3	17	16	480	1	0.9741	467.6
18	17	480	1	0.9761	468.5	19	1D	480	1	0.9639	462.7
21	11A	4160	1	0.9931	4131.1	22	11B	4160	1	0.9941	4135.5
23	SST13	4160	1	0.9930	4130.8	24	SST15	4160	1	0.9940	4135.2
25	13	480	1	0.9755	468.2	26	15	480	1	0.9765	468.7
27	751	34.5	1	1.0290	35.5						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS- 2-3A

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	0.9601	33.1	7	T12INT	4160	1	0.9578	3984.5
8	12A	4160	1	0.9272	3857.2	9	SST14	4160	1	0.9264	3853.7
10	SST18	4160	1	0.9265	3854.3	11	14	480	1	0.8906	427.5
12	18	480	1	0.8992	431.6	13	1C	480	1	0.8754	420.2
14	12B	4160	1	0.9287	3863.5	15	SST16	4160	1	0.9282	3861.5
16	SST17	4160	1	0.9281	3861.1	17	16	480	1	0.9072	435.4
18	17	480	1	0.9093	436.5	19	1D	480	1	0.8962	430.2
21	11A	4160	1	0.9271	3856.8	22	11B	4160	1	0.9286	3863.1
23	SST13	4160	1	0.9270	3856.5	24	SST15	4160	1	0.9285	3862.8
25	13	480	1	0.9082	435.9	26	15	480	1	0.9097	436.7
27	751	34.5	1	1.0490	36.2						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS-2-3B

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	0.9755	33.7	7	T12INT	4160	1	0.9736	4050.2
8	12A	4160	1	0.9482	3944.4	9	SST14	4160	1	0.9473	3941.0
10	SST18	4160	1	0.9475	3941.5	11	14	480	1	0.9125	438.0
12	18	480	1	0.9208	442.0	13	1C	480	1	0.8977	430.9
14	12B	4160	1	0.9496	3950.3	15	SST16	4160	1	0.9491	3948.3
16	SST17	4160	1	0.9490	3947.9	17	16	480	1	0.9286	445.7
18	17	480	1	0.9306	446.7	19	1D	480	1	0.9178	440.6
21	11A	4160	1	0.9481	3944.0	22	11B	4160	1	0.9495	3950.0
23	SST13	4160	1	0.9480	3943.7	24	SST15	4160	1	0.9494	3949.6
25	13	480	1	0.9296	446.2	26	15	480	1	0.9311	446.9
27	751	34.5	1	1.0490	36.2						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?

P. T. I. INTERACTIVE LOAD FLOW PROGRAM--PSS/E  
GINNA STATION DISTRIBUTION SYSTEM LOAD FLOW ANALYSIS  
CASE OFNHS (OFFLINE NORMAL LOADS HOT SHUTDOWN) TABLE:OFNHS- 2-3C

BUSES WITH VOLTAGE GREATER THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
6	12T	34.5	1	1.0236	35.3	7	T12INT	4160	1	1.0230	4255.7
8	12A	4160	1	1.0140	4218.1	9	SST14	4160	1	1.0132	4214.9
10	SST18	4160	1	1.0133	4215.4	11	14	480	1	0.9809	470.8
12	18	480	1	0.9885	474.5	13	1C	480	1	0.9671	464.2
14	12B	4160	1	1.0151	4222.7	15	SST16	4160	1	1.0146	4220.8
16	SST17	4160	1	1.0145	4220.5	17	16	480	1	0.9955	477.8
18	17	480	1	0.9974	478.8	19	1D	480	1	0.9855	473.0
21	11A	4160	1	1.0139	4218.0	22	11B	4160	1	1.0150	4222.6
23	SST13	4160	1	1.0139	4217.7	24	SST15	4160	1	1.0150	4222.3
25	13	480	1	0.9967	478.4	26	15	480	1	0.9978	479.0
27	751	34.5	1	1.0490	36.2						

BUSES WITH VOLTAGE LESS THAN 0.0000:

BUS	NAME	BASKV	AREA	V(PU)	V(KV)	BUS	NAME	BASKV	AREA	V(PU)	V(KV)
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\* NONE \*

ACTIVITY?