

| Franklin Towers - 4100ES Transponder ~ Battery Backup Calculation | | | | Standby Current | Total Standby | Alarm Current | Total Alarm |
|------------------------------------------------------------------------------|-----|-----------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|----------------------|
| Module | Qty | Description | | | | | |
| Panel Equipment | | | | | | | |
| 4100-9601 | 1 | LOCAL MODE TRANSDUCER | + | 0.0070 | 0.0070 | 0.0070 | 0.0070 |
| 4100-0622 | 1 | DIGITAL AUDIO REGR MODULE | | 0.0700 | 0.0700 | 0.0700 | 0.0700 |
| 4100-0634 | 2 | POWER DISTRIBUTION MODULE 120V | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4100-0636 | 1 | BOX TO BOX HARNESS KIT | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4100-0637 | 1 | AUDIO BOX TO BOX HARNESS KIT | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4100-0650 | 1 | BATTERY SHELF | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4100-1246 | 3 | FLEX 50 CLASS A ADAPTER | | 0.0010 | 0.0030 | 0.0300 | 0.0900 |
| 4100-1327 | 3 | DIGITAL FLEX 50W AMP W/3 NACS - 70V | | 0.0850 | 0.2550 | 2.2700 | 6.8100 |
| 4100-2300 | 4 | EXPANSION BAY (PHASE 3 ONLY) | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4100-2320 | 2 | AUDIO EXPANSION BAY KIT | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4100-3110 | 1 | IDNet+2 MODULE - UP TO 250 DEVICES 4 ISOLATED LOOPS | + | 0.0500 | 0.0500 | 0.1000 | 0.1000 |
| 4100-5101 | 2 | EXPANSION PWR SUPPLY (OPS) - 120VAC 60HZ | | 0.0500 | 0.1000 | 0.0500 | 0.1000 |
| 4100-5120 | 2 | EXTERNAL BATTERY POWER | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4100-5325 | 3 | ENHANCED POWER SUPPLY, 3 CHANNELS, 120V | | 0.1250 | 0.3750 | 0.2200 | 0.6600 |
| 4100-6103 | 9 | DUAL CLASS A ADDRESSABLE INTERFACE, DCAI | | 0.0083 | 0.0747 | 0.0185 | 0.1665 |
| Panel Totals | | | | | | 1.0147 | 0.8035 |
| IDNet Addressable Devices (SLC) | | | | | | | |
| 4099-9004 | 19 | ADDRESSABLE SINGLE ACTION MANUAL STATION | + | Constant current draw of .8mA standby and 1mA alarm per address used. Devices requiring additional current are accounted for in the section labeled "Miscellaneous Peripheral Devices Requiring Additional System Power". | | | |
| 4090-9001 | 36 | IDNET SUPERVISED IAM | + | | | | |
| 4090-9002 | 6 | IDNET RELAY IAM | + | | | | |
| 4090-9118 | 2 | RELAY IDNET 2 IAM W/T SENSE | + | | | | |
| 4098-9714 | 94 | TRUEALARM PHOTO SMOKE SENSOR | | | | | |
| 4098-9792 | 67 | TRUEALARM SENSOR BASE | + | | | | |
| 4098-9771 | 27 | TRUEALARM SOUNDER BASE W/ CO MODULE | + | | | | |
| Miscellaneous Peripheral Devices That Require (Additional) System Power | | | | | | | |
| 4098-9771 | 27 | TRUEALARM SOUNDER BASE W/ CO MODULE | | 0.0000 | 0.0000 | 0.0170 | 0.4590 |
| Notification Appliances | | | | Setting | | | |
| 4906-9256 | 180 | ADDRESSABLE CEILING MNT S/W WHITE, ALERT | | 15 | 0.0008 | 0.1440 | 0.0600 |
| | | | | Peripheral Totals | | 0.1440 | 10.8000 |
| | | | | Added Current for UPS Conversion of 24 to 29 Volt IDNac Devices | | 0.0000 | 11.2590 |
| | | | | RUI Totals | | 0.0000 | 0.0000 |
| | | | | Address Totals | | 157 | 0.1256 |
| * Device Address current draw included below (See Additional Current Draws): | | | | System Totals: | | Standby | Alarm |
| | | | | | | 1.2843 | 25.6568 |
| 2. Backup Amplifier assumes Main Amplifier alarm current on failure. | | | | | | | |
| Battery Set #1 (Cabinet/Charger #1) | | | | Standby Current | Standby Total | Alarm Current | Alarm Total |
| Select ALL Power Supplies on this battery set: | | | | | | | |
| EPS-1 | | | | | 0.4571 | | 4.5765 |
| EPS-2 | | | | | 0.1722 | | 3.9230 |
| EPS-3 | | | | | 0.1714 | | 3.8530 |
| XPS-4 | | | | | 0.2220 | | 4.6500 |
| XPS-5 | | | | | 0.1360 | | 2.3500 |
| Sub Total | | | | | 1.1587 | | 19.3425 |
| Additional Current Draws: | | | | | | | |
| IDNac Current Boost for 29vdc Regulated Output ** | | | | | | | |
| MANPET/IDNet Device Address Communication Current | | | | 157 | x 0.000800 | = 0.0000 | 6.1573 |
| | | | | | | = 0.1256 | x 0.001000 = 0.1570 |
| | | | | | Sub Total | 1.2843 | 25.6568 |
| Spare addressable point capacity | | | | 0% | 0 | x 0.0008 | = 0.0000 |
| | | | | | | x 0.001 = 0.0000 | |
| | | | | | Total | 1.2843 | 25.6568 |
| Standby Time = | | | | 24 | Hrs | x 1.2843 | = 30.8232 Standby Ah |
| Alarm Time = | | | | 15 | Min | x 0.25 x 25.6568 | = 6.4142 Alarm Ah |
| | | | | | | | 37.2374 |
| Additional Spare Battery Capacity = | | | | 0% | | + | 0.0000 |
| | | | | | | | 37.2374 |
| Battery Discharge Factor = | | | | 20% | | + | 7.6475 |
| Minimum Battery Capacity = | | | | 20% x 38.8896 50AH (2x) | | | 44.6849 |
| Battery Supplied | | | | 20% x 38.8896 50AH (2x) | | | 44.6849 |

| AIDN CHANNEL | | Device Type | | Point Type | ADDRESSES IN USE: 157 (62.8%) / SPARE ADDRESSES: 93 (37.2%) | | SWITCH SETTINGS | | | | | | | | | |
|--------------|--------|-------------|---------------------------------|------------|-------------------------------------------------------------|---|-----------------|---|---|---|--|--|--|--|--|--|
| | | | | | Location Description | | 1 2 3 4 5 6 7 8 | | | | | | | | | |
| TLM2-1(L1) | PHOTO | SMOKE | EIGHTH FLR - WEST WING | | 2-1 | X | | | | | | | | | | |
| TLM2-2(L1) | PHOTO | SMOKE | EIGHTH FLR - WEST WING | | 2-2 | X | | | | | | | | | | |
| TLM2-3(L1) | ADPUL | PULL | EIGHTH FLR - WEST WING TMPR | | 2-3 | X | X | | | | | | | | | |
| TLM2-4(L1) | IAM | WATER | EIGHTH FLR - WEST WING | | 2-4 | X | | | | | | | | | | |
| TLM2-5(L1) | ADRPUL | PULL | EIGHTH FLR - WEST WING | | 2-5 | X | X | | | | | | | | | |
| TLM2-6(L1) | MCPDS | UTILITY | EIGHTH FLR - WEST WING | | 2-6 | X | X | X | | | | | | | | |
| TLM2-7(L1) | PHOTO | SMOKE | EIGHTH FLR - WEST WING | | 2-7 | X | X | X | | | | | | | | |
| TLM2-8(L1) | PHOTO | SMOKE | EIGHTH FLR - WEST WING | | 2-8 | X | | | | | | | | | | |
| TLM2-9(L1) | MCPDS | UTILITY | EIGHTH FLR - WEST WING | | 2-9 | X | | | | | | | | | | |
| TLM2-10(L1) | PHOTO | SMOKE | EIGHTH FLR - EAST WING | | 2-10 | X | | | | | | | | | | |
| TLM2-11(L1) | PHOTO | SMOKE | EIGHTH FLR - EAST WING | | 2-11 | X | X | X | | | | | | | | |
| TLM2-12(L1) | PHOTO | SMOKE | EIGHTH FLR - EAST WING | | 2-12 | X | X | X | | | | | | | | |
| TLM2-13(L1) | ADRPUL | PULL | EIGHTH FLR - EAST WING | | 2-13 | X | X | X | X | | | | | | | |
| TLM2-14(L1) | IAM | SO | EIGHTH FLR - EAST WING TMPR | | 2-15 | X | X | X | X | | | | | | | |
| TLM2-15(L1) | IAM | SO | EIGHTH FLR - EAST WING TMPR | | 2-16 | X | X | X | X | | | | | | | |
| TLM2-16(L1) | IAM | WATER | NINTH FLR - EAST WING | | 2-17 | X | X | X | | | | | | | | |
| TLM2-17(L1) | IAM | SO | NINTH FLR - EAST WING TMPR | | 2-18 | X | X | X | | | | | | | | |
| TLM2-18(L1) | ADRPUL | PULL | NINTH FLR - EAST WING | | 2-19 | X | X | X | | | | | | | | |
| TLM2-19(L1) | MCPDS | UTILITY | NINTH FLR - EAST WING | | 2-20 | X | X | X | | | | | | | | |
| TLM2-20(L1) | PHOTO | SMOKE | NINTH FLR - EAST WING | | 2-21 | X | X | X | | | | | | | | |
| TLM2-21(L1) | PHOTO | SMOKE | NINTH FLR - EAST WING | | 2-22 | X | X | X | X | | | | | | | |
| TLM2-22(L1) | PHOTO | SMOKE | NINTH FLR - WEST WING | | 2-23 | X | X | X | | | | | | | | |
| TLM2-23(L1) | PHOTO | SMOKE | NINTH FLR - WEST WING | | 2-24 | X | X | X | | | | | | | | |
| TLM2-24(L1) | PHOTO | SMOKE | NINTH FLR - WEST WING | | 2-25 | X | X | X | | | | | | | | |
| TLM2-25(L1) | PHOTO | SMOKE | NINTH FLR - WEST WING | | 2-26 | X | X | X | | | | | | | | |
| TLM2-26(L1) | MCPDS | UTILITY | NINTH FLR - WEST WING | | 2-26 | X | X | X | | | | | | | | |
| TLM2-27(L1) | PHOTO | SMOKE | NINTH FLR - WEST WING | | 2-27 | X | X | X | | | | | | | | |
| TLM2-28(L1) | PHOTO | SMOKE | NINTH FLR - WEST WING | | 2-28 | X | X | X | | | | | | | | |
| TLM2-29(L1) | MCPDS | UTILITY | NINTH FLR - WEST WING | | 2-29 | X | X | X | | | | | | | | |
| TLM2-30(L1) | ADRPUL | PULL | NINTH FLR - WEST WING | | 2-30 | X | X | X | X | | | | | | | |
| TLM2-31(L1) | IAM | WATER | NINTH FLR - WEST WING | | 2-31 | X | X | X | X | | | | | | | |
| TLM2-32(L1) | IAM | SO | NINTH FLR - WEST WING TMPR | | 2-32 | X | X | X | X | | | | | | | |
| TLM2-33(L1) | IAM | SO | TENTH FLR - WEST WING TMPR | | 2-33 | X | X | X | | | | | | | | |
| TLM2-34(L1) | IAM | WATER | TENTH FLR - WEST WING | | 2-34 | X | X | X | | | | | | | | |
| TLM2-35(L1) | ADRPUL | PULL | TENTH FLR - WEST WING | | 2-35 | X | X | X | X | | | | | | | |
| TLM2-36(L1) | MCPDS | UTILITY | TENTH FLR - WEST WING | | 2-36 | X | X | X | | | | | | | | |
| TLM2-37(L1) | PHOTO | SMOKE | TENTH FLR - WEST WING | | 2-37 | X | X | X | X | | | | | | | |
| TLM2-38(L1) | PHOTO | SMOKE | TENTH FLR - WEST WING | | 2-38 | X | X | X | X | | | | | | | |
| TLM2-39(L1) | MCPDS | UTILITY | TENTH FLR - WEST WING | | 2-39 | X | X | X | X | | | | | | | |
| TLM2-40(L1) | PHOTO | SMOKE | TENTH FLR - WEST WING | | 2-40 | X | X | X | | | | | | | | |
| TLM2-41(L1) | PHOTO | SMOKE | TENTH FLR - WEST WING | | 2-41 | X | X | X | | | | | | | | |
| TLM2-42(L1) | PHOTO | SMOKE | TENTH FLR - EAST WING | | 2-42 | X | X | X | | | | | | | | |
| TLM2-43(L1) | PHOTO | SMOKE | TENTH FLR - EAST WING | | 2-43 | X | X | X | X | | | | | | | |
| TLM2-44(L1) | PHOTO | SMOKE | TENTH FLR - EAST WING | | 2-44 | X | X | X | X | | | | | | | |
| TLM2-45(L1) | MCPDS | UTILITY | TENTH FLR - EAST WING | | 2-45 | X | X | X | X | | | | | | | |
| TLM2-46(L1) | ADRPUL | PULL | TENTH FLR - EAST WING | | 2-46 | X | X | X | X | | | | | | | |
| TLM2-47(L1) | IAM | SO | TENTH FLR - EAST WING TMPR | | 2-47 | X | X | X | X | | | | | | | |
| TLM2-48(L1) | IAM | WATER | TENTH FLR - EAST WING | | 2-48 | X | X | X | X | | | | | | | |
| TLM2-49(L1) | IAM | WATER | ELEVENTH FLR - EAST WING | | 2-49 | X | X | X | X | | | | | | | |
| TLM2-50(L1) | IAM | SO | ELEVENTH FLR - EAST WING TMPR | | 2-50 | X | X | X | X | | | | | | | |
| TLM2-51(L1) | ADRPUL | PULL | ELEVENTH FLR - EAST WING | | 2-51 | X | X | X | X | | | | | | | |
| TLM2-52(L1) | MCPDS | UTILITY | ELEVENTH FLR - EAST WING | | 2-52 | X | X | X | X | | | | | | | |
| TLM2-53(L1) | PHOTO | SMOKE | ELEVENTH FLR - EAST WING | | 2-53 | X | X | X | X | | | | | | | |
| TLM2-54(L1) | PHOTO | SMOKE | ELEVENTH FLR - EAST WING | | 2-54 | X | X | X | X | | | | | | | |
| TLM2-55(L1) | MCPDS | UTILITY | ELEVENTH FLR - EAST WING | | 2-55 | X | X | X | X | | | | | | | |
| TLM2-56(L1) | PHOTO | SMOKE | ELEVENTH FLR - EAST WING | | 2-56 | X | X | X | X | | | | | | | |
| TLM2-57(L1) | PHOTO | SMOKE | ELEVENTH FLR - EAST WING | | 2-57 | X | X | X | X | | | | | | | |
| TLM2-58(L1) | PHOTO | SMOKE | ELEVENTH FLR - WEST WING | | 2-58 | X | X | X | X | | | | | | | |
| TLM2-59(L1) | PHOTO | SMOKE | ELEVENTH FLR - WEST WING | | 2-59 | X | X | X | X | | | | | | | |
| TLM2-60(L1) | PHOTO | SMOKE | ELEVENTH FLR - WEST WING | | 2-60 | X | X | X | X | | | | | | | |
| TLM2-61(L1) | MCPDS | UTILITY | ELEVENTH FLR - WEST WING | | 2-61 | X | X | X | X | | | | | | | |
| TLM2-62(L1) | ADRPUL | PULL | ELEVENTH FLR - WEST WING | | 2-62 | X | X | X | X | | | | | | | |
| TLM2-63(L1) | IAM | WATER | ELEVENTH FLR - WEST WING | | 2-63 | X | X | X | X | | | | | | | |
| TLM2-64(L1) | IAM | SO | ELEVENTH FLR - WEST WING TMPR | | 2-64 | X | X | X | X | | | | | | | |
| TLM2-65(L1) | IAM | SO | TWELFTH FLR - WEST WING TMPR | | 2-65 | X | | | | | | | | | | |
| TLM2-66(L1) | IAM | WATER | TWELFTH FLR - WEST WING | | 2-66 | X | X | | | | | | | | | |
| TLM2-67(L1) | ADRPUL | PULL | TWELFTH FLR - WEST WING | | 2-67 | X | X | | | | | | | | | |
| TLM2-68(L1) | MCPDS | UTILITY | TWELFTH FLR - WEST WING | | 2-68 | X | X | | | | | | | | | |
| TLM2-69(L1) | PHOTO | SMOKE | TWELFTH FLR - WEST WING | | 2-69 | X | X | X | | | | | | | | |
| TLM2-70(L1) | PHOTO | SMOKE | TWELFTH FLR - WEST WING | | 2-70 | X | X | X | | | | | | | | |
| TLM2-71(L1) | MCPDS | UTILITY | TWELFTH FLR - WEST WING | | 2-71 | X | X | X | | | | | | | | |
| TLM2-72(L1) | PHOTO | SMOKE | TWELFTH FLR - WEST WING | | 2-72 | X | X | X | | | | | | | | |
| TLM2-73(L1) | PHOTO | SMOKE | TWELFTH FLR - WEST WING | | 2-73 | X | X | X | | | | | | | | |
| TLM2-74(L1) | PHOTO | SMOKE | TWELFTH FLR - EAST WING | | 2-74 | X | X | X | | | | | | | | |
| TLM2-75(L1) | PHOTO | SMOKE | TWELFTH FLR - EAST WING | | 2-75 | X | X | X | X | | | | | | | |
| TLM2-76(L1) | PHOTO | SMOKE | TWELFTH FLR - EAST WING | | 2-76 | X | X | X | X | | | | | | | |
| TLM2-77(L1) | MCPDS | UTILITY | TWELFTH FLR - EAST WING | | 2-77 | X | X | X | X | | | | | | | |
| TLM2-78(L1) | ADRPUL | PULL | TWELFTH FLR - EAST WING | | 2-78 | X | X | X | X | | | | | | | |
| TLM2-79(L1) | IAM | SO | TWELFTH FLR - EAST WING TMPR | | 2-79 | X | X | X | X | | | | | | | |
| TLM2-80(L1) | IAM | WATER | TWELFTH FLR - EAST WING | | 2-80 | X | X | X | X | | | | | | | |
| TLM2-81(L1) | IAM | WATER | THIRTEENTH FLR - EAST WING | | 2-81 | X | | | | | | | | | | |
| TLM2-82(L1) | IAM | SO | THIRTEENTH FLR - EAST WING TMPR | | 2-82 | X | | | | | | | | | | |
| TLM2-83(L1) | ADRPUL | PULL | THIRTEENTH FLR - EAST WING | | 2-83 | X | X | | | | | | | | | |
| TLM2-84(L1) | MCPDS | UTILITY | THIRTEENTH FLR - EAST WING | | 2-84 | X | X | X | | | | | | | | |
| TLM2-85(L1) | PHOTO | SMOKE | THIRTEENTH FLR - EAST WING | | 2-85 | X | X | X | | | | | | | | |
| TLM2-86(L1) | PHOTO | SMOKE | THIRTEENTH FLR - EAST WING | | 2-86 | X | X | X | X | | | | | | | |
| TLM2-87(L1) | MCPDS | UTILITY | THIRTEENTH FLR - EAST WING | | 2-87 | X | X | X | X | | | | | | | |
| TLM2-88(L1) | PHOTO | SMOKE | THIRTEENTH FLR - WEST WING | | 2-88 | X | X | X | X | | | | | | | |
| TLM2-89(L1) | PHOTO | SMOKE | THIRTEENTH FLR - WEST WING | | 2-89 | X | X | X | X | | | | | | | |
| TLM2-90(L1) | PHOTO | SMOKE | THIRTEENTH FLR - WEST WING | | 2-90 | X | X | X | X | | | | | | | |
| TLM2-91(L1) | PHOTO | SMOKE | THIRTEENTH FLR - WEST WING | | 2-91 | X | X | X | X | | | | | | | |
| TLM2-92(L1) | PHOTO | SMOKE | THIRTEENTH FLR - WEST WING | | 2-92 | X | X | X | X | | | | | | | |
| TLM2-93(L1) | MCPDS | UTILITY | THIRTEENTH FLR - WEST WING | | 2-93 | X | X | X | X | | | | | | | |
| TLM2-94(L1) | ADRPUL | PULL | THIRTEENTH FLR - WEST WING | | 2-94 | X | X | X | X | X | | | | | | |
| TLM2-95(L1) | IAM | WATER | THIRTEENTH FLR - WEST WING | | 2-95 | X | X | X | X | X | | | | | | |
| TLM2-96(L1) | IAM | SO | THIRTEENTH FLR - WEST WING TMPR | | 2-96 | X | X | X | X | X | | | | | | |
| TLM2-97(L1) | IAM | SO | FOURTEENTH FLR - WEST WING | | 2-97 | X | | | | | | | | | | |
| TLM2-98(L1) | IAM | WATER | FOURTEENTH FLR - WEST WING | | 2-98 | X | | | | | | | | | | |
| TLM2-99(L1) | ADRPUL | PULL | FOURTEENTH FLR - WEST WING | | 2-99 | X | X | | | | | | | | | |
| TLM2-100(L1) | MCPDS | UTILITY | FOURTEENTH FLR - WEST WING | | 2-100 | X | X | X | | | | | | | | |
| TLM2-101(L1) | PHOTO | SMOKE | FOURTEENTH FLR - WEST WING | | 2-101 | X | X | X | X | | | | | | | |
| TLM2-102(L1) | PHOTO | SMOKE | FOURTEENTH FLR - WEST WING | | 2-102 | X | X | X | X | | | | | | | |
| TLM2-103(L1) | MCPDS | UTILITY | FOURTEENTH FLR - WEST WING | | 2-103 | X | X | X | X | | | | | | | |
| TLM2-104(L1) | PHOTO | SMOKE | FOURTEENTH FLR - WEST WING | | 2-104 | X | X | X | X | | | | | | | |
| TLM2-105(L1) | PHOTO | SMOKE | FOURTEENTH FLR - WEST WING | | 2-105 | X | X | X | X | | | | | | | |
| TLM2-106(L1) | PHOTO | SMOKE | FOURTEENTH FLR - WEST WING | | 2-106 | X | X | X | X | | | | | | | |
| TLM2-107(L1) | PHOTO | SMOKE | FOURTEENTH FLR - EAST WING | | 2-107 | X | X | X | X | | | | | | | |
| TLM2-108(L1) | PHOTO | SMOKE | FOURTEENTH FLR - EAST WING | | 2-108 | X | X | X | X | | | | | | | |
| TLM2-109(L1) | MCPDS | UTILITY | FOURTEENTH FLR - EAST WING | | 2-109 | X | X | X | X | | | | | | | |
| TLM2-110(L1) | ADRPUL | PULL | FOURTEENTH FLR - EAST WING | | 2-110 | X | X | X | X | X | | | | | | |
| TLM2-111(L1) | IAM | SO | FOURTEENTH FLR - EAST WING TMPR | | 2-111 | X | X | X | X | X | | | | | | |
| TLM2-112(L1) | IAM | WATER | FOURTEENTH FLR - EAST WING | | 2-112 | X | X | X | X | | | | | | | |
| TLM2-113(L1) | IAM | WATER | FIFTEENTH FLR - EAST WING | | 2-113 | X | X | X | X | | | | | | | |
| TLM2-114(L1) | IAM | SO | FIFTEENTH FLR - EAST WING TMPR | | 2-114 | X | X | X | X | | | | | | | |
| TLM2-115(L1) | ADRPUL | PULL | FIFTEENTH FLR - EAST WING | | 2-115 | X | X | X | X | | | | | | | |
| TLM2-116(L1) | ADRPUL | PULL | FIFTEENTH FLR - EAST WING | | 2-116 | X | X | X | X | X | | | | | | |
| TLM2-117(L1) | PHOTO | SMOKE | FIFTEENTH FLR - EAST WING | | 2-117 | X | X | | | | | | | | | |

| INLET CHANNEL M2 | | | ADDRESSES IN USE: 157 (62.8%) SPARE ADDRESSES: 93 (37.2%) | | | | | SWITCH SETTINGS | | | | | | | |
|------------------|--------|---------|-------------------------------------------------------------|--|--|--|-------|-----------------|---|---|---|---|---|---|----|
| Address | | | Location Description | | | | | 1 2 3 4 5 6 7 8 | | | | | | | |
| TLM2-126(L) | ADRPUL | PULL | FIFTEENTH FLR - WEST WING | | | | 1-126 | X | X | X | X | X | X | X | ON |
| TLM2-127(L) | IAM | WATER | FIFTEENTH FLR - WEST WING | | | | 1-127 | X | X | X | X | X | X | X | ON |
| TLM2-128(L) | IAM | SO | FIFTEENTH FLR - WEST WING TMPR | | | | 1-128 | | | | | | | | X |
| TLM2-129(L) | IAM | SO | SIXTEENTH FLR - WEST WING TMPR | | | | 1-129 | X | X | X | X | X | X | X | ON |
| TLM2-130(L) | PHOTO | SMOKE | SIXTEENTH FLR - WEST WING TOP OF WEST STAIRWELL | | | | 1-130 | X | | | | | | | X |
| TLM2-131(L) | IAM | WATER | SIXTEENTH FLR - WEST WING | | | | 1-131 | X | | | | | | | X |
| TLM2-132(L) | ADRPUL | PULL | SIXTEENTH FLR - WEST WING | | | | 1-132 | X | | | | | | | X |
| TLM2-133(L) | MCOPS | UTILITY | SIXTEENTH FLR - WEST WING | | | | 1-133 | X | | | | | | | X |
| TLM2-134(L) | PHOTO | SMOKE | SIXTEENTH FLR - WEST WING | | | | 1-134 | X | X | | | | | | X |
| TLM2-135(L) | PHOTO | SMOKE | SIXTEENTH FLR - WEST WING | | | | 1-135 | X | X | X | | | | | X |
| TLM2-136(L) | MCOPS | UTILITY | SIXTEENTH FLR - WEST WING | | | | 1-136 | X | | | | | | | X |
| TLM2-137(L) | PHOTO | SMOKE | SIXTEENTH FLR - WEST WING | | | | 1-137 | | | | X | | | | X |
| TLM2-138(L) | PHOTO | SMOKE | SIXTEENTH FLR - WEST WING | | | | 1-138 | X | X | | | | | | X |
| TLM2-139(L) | PHOTO | SMOKE | SIXTEENTH FLR - WEST WING | | | | 1-139 | X | X | X | | | | | X |
| TLM2-140(L) | PHOTO | SMOKE | SIXTEENTH FLR - EAST WING | | | | 1-140 | X | | | | | | | X |
| TLM2-141(L) | PHOTO | SMOKE | SIXTEENTH FLR - EAST WING | | | | 1-141 | X | | | | | | | X |
| TLM2-142(L) | PHOTO | SMOKE | SIXTEENTH FLR - EAST WING | | | | 1-142 | X | X | X | | | | | X |
| TLM2-143(L) | MCOPS | UTILITY | SIXTEENTH FLR - EAST WING | | | | 1-143 | X | X | X | X | | | | X |
| TLM2-144(L) | ADRPUL | PULL | SIXTEENTH FLR - EAST WING TOP OF EAST STAIRWELL | | | | 1-144 | | | | X | | | | X |
| TLM2-145(L) | PHOTO | SMOKE | SIXTEENTH FLR - EAST WING TOP OF EAST STAIRWELL | | | | 1-145 | X | | | | | | | X |
| TLM2-146(L) | IAM | SO | SIXTEENTH FLR - EAST WING TMPR | | | | 1-146 | X | X | | | | | | X |
| TLM2-147(L) | IAM | WATER | SIXTEENTH FLR - EAST WING | | | | 1-147 | X | X | X | | | | | X |
| TLM2-148(L) | RIAM | PRIMARY | SIXTEENTH FLR - ELEVATOR MACHINE ROOM PRI | | | | 1-148 | X | X | X | | | | | X |
| TLM2-149(L) | RIAM | ALTERN | SIXTEENTH FLR - ELEVATOR MACHINE ROOM ALT | | | | 1-149 | X | X | X | | | | | X |
| TLM2-150(L) | RIAM | RELAY | SIXTEENTH FLR - ELEVATOR MACHINE ROOM CAB LT | | | | 1-150 | X | X | X | | | | | X |
| TLM2-151(L) | TRIAM | UTILITY | SIXTEENTH FLR - ELEVATOR MACHINE ROOM SHUNT | | | | 1-151 | X | X | X | | | | | X |
| TLM2-152(L) | RIAM | PRIMARY | SIXTEENTH FLR - ELEVATOR MACHINE ROOM PRI | | | | 1-152 | X | X | X | | | | | X |
| TLM2-153(L) | RIAM | ALTERN | SIXTEENTH FLR - ELEVATOR MACHINE ROOM ALT | | | | 1-153 | X | X | X | | | | | X |
| TLM2-154(L) | RIAM | RELAY | SIXTEENTH FLR - ELEVATOR MACHINE ROOM CAB LT | | | | 1-154 | X | X | X | | | | | X |
| TLM2-155(L) | TRIAM | UTILITY | SIXTEENTH FLR - ELEVATOR MACHINE ROOM SHUNT | | | | 1-155 | X | X | X | | | | | X |
| TLM2-156(L) | PHOTO | SMOKE | SIXTEENTH FLR - ELEVATOR MACHINE ROOM | | | | 1-156 | X | X | X | | | | | X |
| TLM2-157(L) | ADRPUL | PULL | SIXTEENTH FLR - ELEVATOR MACHINE ROOM | | | | 1-157 | X | X | X | | | | | X |
| TLM-158 | | | SPARE | | | | 1-158 | X | X | X | X | | | | ON |
| TLM-159 | | | SPARE | | | | 1-159 | X | X | X | X | | | | ON |
| TLM-160 | | | SPARE | | | | 1-160 | X | | | | | | | ON |
| THRU | | | | | | | | | | | | | | | |
| TLM-250 | | | | | | | | X | X | X | X | X | X | | ON |

| | Amplifier Wattage | Watts Used | Alarm | Expansion Card? | Avail. Ckts. | Used Ckts. | % Used |
|-------|----------------------|---------------|--------|--------------------|-----------------|---------------|-----------|
| Amp-1 | 50 | 31.5W | 2.270A | No | 3 | 3 | 63.00% |
| Amp-2 | 50 | 31.5W | 2.270A | No | 3 | 3 | 63.00% |
| Amp-3 | 50 | 31.5W | 2.270A | No | 3 | 3 | 63.00% |

| Franklin Towers - 4100ES Transponder – Speaker DB Loss Calculations | | | | | | | | | | | | | | | MAXIMUM -3 dB DROP | |
|---------------------------------------------------------------------|---------------------|-------------|-----------|---------------------|-----------------|------------|-----------------------|------------------------|------------------------------|---------------------------|------------------------------|-------------------------|------------------------------------|----------------------------------|---------------------------------------------|--|
| *Circuit Voltage = 70vms [E] | | | | | | | | | | | | | | | | |
| SPK/CEUR CTR DESCRIPTION | Plan Circuit Number | Speaker Tap | Watts [P] | Total Spkrs per [P] | Total Watts [P] | Wire Gauge | Est. Ckt. Length [ft] | Wire Res. Per Foot [R] | Circuit Resistance [Rt=20WR] | Speaker Current [I=√P/Rt] | Speaker Resistance [Rt=Et/I] | Voltage At End [Et=IRt] | Watts At End [P=I ² Rt] | Actual dB Drop [-80Log10(Pt/Ps)] | Max Allowable Ckt. Length [ft] (-0.1414/Rt) | |
| SPK/CEUR 17.5I EIGHTH FTR | Amp-1 | S1 | 21 | 21 | 10.5 Watts | 16ga | 688 | 0.0049 | 6.729 | 0.150 | 466.667 | 69.005 | 10.204 | -12 | 1975.75 Ft | |
| SPK/CEUR 17.5I TENTH FTR | Amp-1 | S2 | 21 | 21 | 10.5 Watts | 16ga | 718 | 0.0049 | 7.035 | 0.150 | 466.667 | 68.962 | 10.191 | -14 | 1975.75 Ft | |
| SPK/CEUR 17.5I TENTH FTR | Amp-1 | S3 | 21 | 21 | 10.5 Watts | 16ga | 748 | 0.0049 | 7.342 | 0.150 | 466.667 | 68.920 | 10.178 | -14 | 1975.75 Ft | |
| SPK/CEUR 17.5I FIFTEENTH FTR | Amp-2 | S4 | 21 | 21 | 10.5 Watts | 16ga | 778 | 0.0049 | 7.649 | 0.150 | 466.667 | 68.877 | 10.166 | -14 | 1975.75 Ft | |
| SPK/CEUR 17.5I TWELFTH FTR | Amp-2 | S5 | 21 | 21 | 10.5 Watts | 16ga | 774 | 0.0049 | 7.576 | 0.150 | 466.667 | 68.925 | 10.180 | -13 | 1975.75 Ft | |
| SPK/CEUR 17.5I THIRTEENTH FTR | Amp-2 | S6 | 21 | 21 | 10.5 Watts | 16ga | 774 | 0.0049 | 7.576 | 0.150 | 466.667 | 68.883 | 10.167 | -14 | 1975.75 Ft | |
| SPK/CEUR 17.5I FOURTEENTH FTR | Amp-3 | S7 | 21 | 21 | 10.5 Watts | 16ga | 804 | 0.0049 | 7.883 | 0.150 | 466.667 | 68.840 | 10.155 | -15 | 1975.75 Ft | |
| SPK/CEUR 17.5I FIFTEENTH FTR | Amp-3 | S8 | 21 | 21 | 10.5 Watts | 16ga | 834 | 0.0049 | 8.187 | 0.150 | 466.667 | 68.797 | 10.143 | -16 | 1975.75 Ft | |
| SPK/CEUR 17.5I SIXTEENTH FTR | Amp-3 | S9 | 21 | 21 | 10.5 Watts | 16ga | 864 | 0.0049 | 8.490 | 0.150 | 466.667 | 68.755 | 10.130 | -16 | 1975.75 Ft | |

[illegible]

| | |
|-----------------------------|---------------|
| DRAWN BY: | J.DELACRUZ |
| CHECKED BY: | A.ONEAL |
| ISSUE DATE: | 1/19/18 |
| JOB #: | |
| PROJECT #: | 147:604032801 |
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| | |
|---------|--------------------------|
| SYSTEM: | FIRE ALARM SYSTEM |
| SHEET: | |

TRANSPONDER CALCULATIONS AND SCHEDULES