

GRAND GULF NUCLEAR STATION UNITS 1 & 2
INTERIM REPORT NUMBER 3
PRD-79/21

1. Description of Deficiency

In December 1979 Bechtel (MP&L's Architect/Engineer) determined from General Electric purchased part drawings that several instruments were not purchased nuclear safety related as required by Bechtel's design, Technical Information for Power Generation Control Complex (PGCC) Panel Mounted Instruments. Further investigation revealed General Electric's failure to provide seismically and environmentally qualified instruments for use in nuclear safety related systems in the Balance of Plant (BOP) PGCC.

2. Safety Implications

Attachment A provides a list of instruments affected. Investigative action is in process to determine if other Bechtel projects are affected. Several of these instruments (ones identified with an asterisk) are used to actively perform a set function (i.e., control enclosure building pressure, operate safety-related dampers, cause trip functions, etc.). Improper operation of these devices would create a situation for which the plant accident analyses have not been considered and could, therefore, affect adversely safety of operation of the plant. This condition is considered reportable meeting the reporting criteria of 10CFR50.55(e)(1)(i) and (ii) and 10CFR21, Para. 21.3(d)(1).

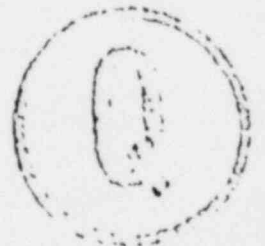
3. Corrective Actions

The corrective actions are in process to provide qualified instruments. Details of the corrective action plan have not been finalized. The action plan is expected to be completed by July 11, 1980 with a schedule of actions needed to complete this item. Details of corrective action are being tracked by MCAR Number 59.

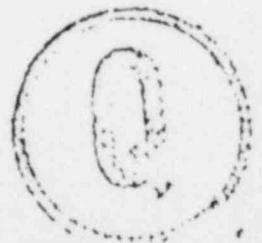
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| <u>PANEL</u> | <u>INSTRUMENT</u> | <u>MANUFACTURER/MODEL No.</u> |
|----------------|-------------------|-------------------------------|
| P871 | 1M71-TT-N613A * | Rosemount 442A |
| | 1M71-TT-N613A * | " |
| | 1M71-TT-N614A * | " |
| | 1M71-TT-N615A * | " |
| | 1M71-TT-N616A * | " |
| | SP41-FY-K603A | Bailey 752 |
| | 1P41-I/E-K604A | Bailey 766100 |
| | 1T48-JY-K608A * | GE 9T56Y |
| | 1T48-PDC-R603A * | Bailey 740 |
| | 1Z77-TT-N604A | Bailey 740 |
| P872 | 1E61-I/E-K600B | Bailey 766 |
| | 1E61-TT-N604B | Bailey 740 |
| | 1M71-JY-K600B | GE 9T56Y |
| | 1M71-TT-N605B & D | Bailey 740 |
| | 1M71-TT-N605B | Rosemount 442A |
| | 1M71-TT-N607B & D | Bailey 740 |
| | 1M71-TT-N612B | Rosemount 442A |
| | 1M71-TT-N613B | " |
| | 1M71-TT-N614B | " |
| | 1M71-TT-N615B | " |
| | 1M71-TT-N616B | " |
| | SP41-FY-K603B | Bailey 752 |
| | 1P41-I/E-K604B | Bailey 766 |
| | 1T48-JY-K608B | GE 9T56Y |
| 1T48-PDC-R603B | Bailey 740 | |
| 1Z77-TT-N604B | Bailey 740 | |
| P877 | 1M71-TT-N606C | Rosemount 442A |
| | 1M71-TT-N612C | " |
| | 1M71-TT-N613C | " |
| | 1M71-TT-N614C | " |
| | 1M71-TT-N615C | " |
| | 1M71-TT-N616C | " |
| | 1P41-I/E-K604C | Bailey 766 |
| P878 | 1M71-TT-N606D | Rosemount 442A |
| | 1M71-TT-N612D | " |
| | 1M71-TT-N613D | " |
| | 1M71-TT-N614D | " |
| | 1M71-TT-N615D | " |
| | 1M71-TT-N616D | " |
| P864 | 1R21-XI-R611A & B | GE AB-40 |
| | 1R21-XL-R700A & B | Kirkland S-14 |

* Performs active safety function



| <u>PANEL</u> | <u>INSTRUMENT</u> | <u>MANUFACTURER/MODEL NO.</u> |
|--------------|--------------------------|-------------------------------|
| P855 | SZ51-JY-R600A & B | GE 9T56Y |
| | SZ51-PR-R603A & B | Bailey 771 |
| | SZ51-YR-R604A & B | Bailey 771 |
| | SZ51-XL-R701A-II | JAY-EL MK II |
| | SZ51-XL-R702A-E | JAY-EL MK II |
| P864 | 1P75-HS-M750A & B | Westinghouse FT-1 |
| | 1P75-EI-R600 A & B | GE 180 |
| | 1P75-SI-R601A & B | GE 180 |
| | 1P75-JI-R602A & B | GE 180 |
| | 1P75-JI-R603A & B | GE 180 |
| | 1P75-II-R604A & B | GE 180 |
| | 1P75-EI-R605A & B | GE 180 |
| | 1P75-II-R606A & B | GE 185 |
| | 1P75-LI-R607A & B | GE 185 |
| | 1P75-LI-R608A & B | GE 185 |
| | 1P75-XL-R701A-G | JAY-EL MK II |
| | 1P75-XL-R702A-G | JAY-EL MK II |
| | 1R20-HS-M769A & B | Westinghouse FT-1 |
| | 1R20-HS-M770A & B | Westinghouse FT-1 |
| | 1R20-HS-M771A & B | Westinghouse FT-1 |
| | 1R20-HS-M772A & B | Westinghouse FT-1 |
| | 1R20-HS-M773A & B | Westinghouse FT-1 |
| | 1R20-HS-M774A & B | Westinghouse FT-1 |
| | 1R20-IT-R627A1, A, B1, B | GE 185, Cal-Coil 5A/20MA |
| | 1R20-EI-R628A & B | GE 185 |
| | 1R20-IT-R629A1, A, B1, B | GE 185, Cal.-Coil 5A/20MA |
| | 1R20-EI-R630A & B | GE 185 |
| | 1R20-IT-R631A, A, B1, B | GE 185, Cal.-coil 5A/20MA |
| | 1R20-EI-R632A & B | GE 185 |
| | 1R20-IT-R633A1, A, B1, B | GE 185, Cal-Coil 5A/20MA |
| | 1R20-EI-R634A & B | GE 185 |
| | 1R20-IT-R635A1, A, B1, B | GE 185, Cal-Coil 5A/20MA |
| | 1R20-EI-R636A & B | GE 185 |
| | 1R20-EI-R647A & B | GE 185 |
| | 1R20-IT-R648A1, A, B1, B | GE 185, Cal-Coil 5A/20MA |
| | 1R21-HS-M600A & B | GE SBM |
| | 1R21-HS-M747A & B | Westinghouse FT-1 |
| | 1R21-HS-M748A & B | Westinghouse FT-1 |
| | 1R21-HS-M749A & B | Westinghouse FT-1 |
| | 1L21-EI-R603A & B | GE 180 |
| | 1R21-EI-R610A & B | GE 180 |
| | 1R21-EI-R612A & B | GE 180 |
| | 1R21-IT-R613A1, A, B1, B | GE 185, Cal-Coil 5A/20MA |
| | 1R21-EI-R615A & B | GE 185 |
| | 1R21-IT-R616A1, A, B1, B | Ge 185, Cal-Coil 5A/20MA |
| | 1R21-IT-R617A1, A, B1, B | GE 185, Cal-Coil 5A/20MA |
| | 1R21-XL-R702 | JAY-EL MK II |



| <u>PANEL</u> | <u>INSTRUMENT</u> | <u>MANUFACTURER/MODEL NO.</u> |
|---------------------|---------------------------|-------------------------------|
| P864 | LR21-XL-R701 | JAY-EL MK II |
| P870 | 1E30-LR-R600A & B | Bailey 771 |
| | 1E30-XL-R701A-H | JAY-EL MK II |
| | 1E30-XL-R702A-H | JAY-EL MK II |
| | 1E61-HSS-M621A & B | L & N 9248 |
| | 1E61-PDR-R601A & B | Bailey 771 |
| | 1E61-AR-R602A & B | Bailey 771 |
| | 1E61-TI-R603A & B | GE 180 |
| | 1E61-JI-R604A & B | GE 180 |
| | 1E61-XL-R701A-H,J,K | JAY-EL MK II |
| | 1E61-XL-R702A-H,J,K | JAY-EL MK II |
| | 1M71-PDR-R601A & B | Bailey 771 |
| | 1M71-TR-R602A & B | " |
| | 1M71-TR-R603A & B | " |
| | 1M71-TJRS-R604A & B | " |
| | 1M71-TR-R605A & B & C & D | " |
| | 1M71-XL-R701A-E | JAY-EL MK II |
| | 1M71-XL-R702A-E | " |
| | 1P41-FI-R601 | GE 180 |
| | 1P41-PI-R602 | GE 180 |
| | 1P41-LR-R604A & B | Bailey 771 |
| | 1P41-UR-R606A & B | " |
| | 1P41-XL-R701A-H,J,K | JAY-EL MK II |
| | 1P41-XL-R702A-H,J,K | " |
| | 1P41-XL-R703A,B & C | " |
| | 1P42-XL-R701A-D | " |
| | 1P42-XL-R702A-D | " |
| | 1P53-HS-M612A&B * | GE CR2940 |
| | 1P64-HS-M629A & B * | " |
| | 1P81-LI-R600 | GE 185 |
| | 1P81-LI-R601 | " |
| | 1P81-XL-R700 | JAY-EL MK II |
| | 1P81-XL-R701 | " |
| | 1P81-XL-R702 | " |
| 1T48-FR-R600A & B | Bailey 771 | |
| 1T48-PDR-R601A & B | " | |
| 1T48-PDR-R602A & B | " | |
| 1T48-XL-R701A-H,J | JAY-EL MK II | |
| 1T48-XL-R702A-H,J | " | |
| 1E61-HC-R605A & B * | Bourns 3650 | |
| P871 | 1E61-I/E-K600 A * | Bailey 766000 |
| | 1E61-TT-N604A | Bailey 740 |
| | 1M71-JY-K600A | GE 9156Y |
| | 1M71-TT-N605A & C | Bailey 740 |
| | 1M71-TT-N606A * | Rosemount 442A |
| | 1M71-TT-N607A & C * | Bailey 740 |

