

General Electric Company
Wire and Cable Business Department
Docket No. 99900398/80-01

NOTICE OF DEVIATION

Based on the results of an NRC inspection conducted on May 5-9, 1980, it appears that certain of your activities were not conducted in accordance with NRC requirements as indicated below:

Criterion V of Appendix B to 10 CFR 50 states: "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings. Instructions, procedures, or drawings shall include appropriate quantitative or qualitative acceptance criteria for determining that important activities have been satisfactorily accomplished." Deviations from these requirements are as follows:

- A. Section 1.4, Issue A, dated March 7, 1966, of the Product Design Engineering Manual, contains the following requirements:
1. Paragraph 1.1 states in part, "Reference to Manufacturing - Processing instructions such as BMI's and Factory Standardization Manual shall not appear on any Product Design Specification."
 2. Paragraph 1.3.3 states in part, "There is no published index covering CO PDS's, but a Product Design File has been initiated as outlined in Manual Section 1.5 to assist in the retrieval of design information on special designs All CO PDS's shall be recored (sic) in the Product Design File in accordance with Manual Section 1.5 concurrent with the release of the CO by the engineer."

Manual Section 1.5 requires that the engineer issue and file a card for every Custom Order (CO).

3. Paragraph 2.11.6.1 states in part, "The applicable customer and/or industry specification references included in the title of the PDS shall be repeated under the Final Test and Inspection headings."

Contrary to the above:

- a. The following Custom Order Product Design Specifications (CO PDS's) for Bechtel/Southern California reflected Bridgeport Manufacturing Instruction (BMI) No. 13, Section 7-0; Nos.: CO 10400, Issue A, dated April 28, 1980; CO 10405, Issue A, dated May 1, 1980; and CO 10413, Issue A, dated May 1, 1980.
- b. A Product Design File had not been initiated/maintained by the engineers, as evidenced by a lack of cards and file of the previously identified CO PDS's.

8007250592

- c. Customer/industry specifications had not been repeated under the heading of Final Test and Inspection of the following CO PDS's for the Bechtel/Southern California order; Nos.: CO 10400, Issue A, dated April 28, 1980; and CO 10412, Issue A, dated May 1, 1980. The inspector noted that the PDS's contained no heading identified as, Final Test and Inspection.

- B. Bridgeport Manufacturing Instructions No. 8, Section 2, dated October 8, 1975 contains, among others, the following chart:

"Wire Diameter . . .

<u>Number of Wires</u>	<u>AMP/WIRE</u>	<u>Total AMP.S</u>	<u>South Tank AMP.S</u>	<u>North Tank AMP.S</u>	<u>Wire Speed</u>
1	350	350	110	240	300
2	350	700	230	470	300
3	350	1050	350	700	300
4	350	1400	460	940	300
5	350	1750	580	1170	300
6	350	2100	700	1400	300"

Contrary to the above, the parameters had not been maintained during tin plating of wire, as evidenced by: AMP/WIRE - 400 for Wire No. 2; 400 for Wire No. 3; 420 - 440 for Wire No. 4; 360 - 380 for Wire No. 5; and 360 - 380 for Wire No. 6; Tank AMP's - 650 for South; and 1200 for North; Wire Speed - 260.

These conditions were noted on Line No. 3; it was also noted that five wires were running with position No. 1 vacant.

- C. Paragraph 2.1 of Section 1.9, Issue A, dated October 19, 1964, of the Product Design Engineering Manual, states in part, "An ECA . . . is used to record all changes and reasons for changes made on SI, CO and TCO Product Design Specifications . . . NP Nameplate Drawings; and Product Design Engineering Manual."

Contrary to the above, Engineering Change Authorizations (ECA's) had not been used to record changes made in Sections 1.8 and 7.1 of the Product Design Engineering Manual on May 11, 1970 and April 30, 1973, respectively.