The Foxboro Company

November 3, 1989

Mr. Kamalakar R. Naidu
United States Nuclear Regulatory Commission
Dept. 9D4
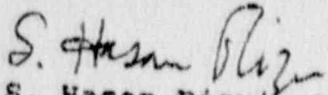Washington, DC 20555

Dear Mr. Naidu:

As discussed in our telephone conversation of October 31, 1989, we
have become aware of a potential problem related to the
application of the model N-2AO-L2C-R, logic to contact output
module, in certain configurations. When applied in a particular
manner the model N-2AO-L2C-R may not de-energize when the actuator
that drives the model N-2AO-L2C-R suffers a loss of power.

Preliminary testing, performed this past week, indicates that this
situation may occur under certain limited applications. If two
model N-2AO-L2C-R modules are actuated by a single actuator, and
the two model N-2AO-L2C-R modules are mounted in two separate
nests, or cardframes, and one on the model N-2AO-L2C-R is mounted
in the same nest as the actuator, and the actuator nest loses its
+15 VDC power source, the model N-2AO-L2C-R in the nest that
remains powered may not de-energize. In some cases, the user may
assume that the model N-2AO-L2C-R module de-energizes on loss of
power to the actuator module as part of his design.

We feel that the likelihood of occurrence is very low since
thousands of model N-2AO-L2C-R modules have been applied, over
2000 in nuclear plants, without a single report of such an
occurrence. It should also be noted that loss of power to a nest
would, under most circumstances, be detected by the user either
directly, via contact on the power distribution module, or
indirectly by de-energization of the model N-2AO-L2C-R module in
the affected nest. Nonetheless, Foxboro intends to perform a
series of tests on the model N-2AO-L2C-R module as well as other
relay modules and actuator modules to determine the extent of the
potential problem. Once this testing is complete we will notify
all customers who have used these modules in nuclear applications.
We will also recommend corrective action that will be determined
as part of the testing program. For technical questions please
contact Mr. James Keiper (1-508-549-6332).

We will keep you informed as the testing progresses.

Very truly yours,

S. Hasan Rizvi, D100/N04-2B
Manager, Corporate Quality Assurance

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