



Triconex Corporation

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March 21, 2000

Document Control Desk
United States Nuclear Regulatory Commission
Washington, DC 20555

Subject: Nuclear 1E Qualification of the TRICON TMR Programmable Logic
Controller (PLC) – Triconex Corporation Copyrighted Material

Reference: Project Number 709

Gentlemen:

Over the past two years, Triconex has worked with EPRI, representatives of nuclear utilities, contractors, and NRC staff in seeking qualification of the Triconex TRICON, a commercially available PLC for safety-related applications in nuclear power plants. We have attempted to keep the NRC abreast of our intentions and progress in qualifying the TRICON. Our objective has been to address both the nuclear power industry and NRC needs and concerns so that planning, implementation, and regulatory review can be accomplished in a predictable and efficient manner that maintains safety standards.

In accordance with EPRI TR-107330 "Generic Requirements Specification for Qualifying a Commercially Available PLC for Safety-Related Applications in Nuclear Power Plants", Triconex has:

- Established Quality Assurance policies, programs and procedures in compliance with 10CFR50 Appendix B,
- Submitted a set of equipment for qualification testing,
- Developed test procedures,
- Conducted qualification testing at an independent national laboratory,
- And currently analyzing the data and composing summary reports.

In conforming with our stated intention of keeping the NRC informed of the qualification progress through status meetings and by submitting supporting information and draft reports as they are developed during the course of the qualification effort, we submit the enclosed documents for your review. Please note that these documents are copyrighted material and should not be copied without Triconex written authorization. Triconex has no objection to public viewing at NRC facilities.

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In closing, we believe that past interactions with the NRC staff during the planning stages has been constructive and beneficial. We continue to seek NRC staff input. Our next meeting is scheduled for March 23 and 24, 2000 at MPR Associates offices in Alexandria, VA. Should you have any questions regarding these documents, please contact me at (281) 360-6401 or Mr. Mitch Albers, the MPR Associates Project Manager at (703) 519-0200.

Sincerely,

A handwritten signature in black ink, reading "J. Troy Martel". The signature is written in a cursive style with a large, sweeping initial "J".

J. Troy Martel, P.E.
Triconex Nuclear Qualification Project Director

cc. w/o enclosures

L. Raynard Wharton, NRC
J. Mauck, NRC
J. Naser, EPRI
W. Sotos, STPNOC
M. Albers, MPR
T. Hurst, Hurst Tech.
W. Burke, Foxboro
M. Fortinti, Foxboro
M. Phillips, Triconex
G. McDonald, Triconex
Nuclear Qualification File

**Attachment 1 – Enclosure List, Triconex Letter to NRC dated 3/21/00
(re: Copyrighted Information)**

Enclosures to this Letter include the documents listed below. Where indicated, these documents are copyrighted by the Triconex Corporation and should not be duplicated without Triconex permission.

<u>Item</u>	<u>Document Description</u>	<u>Document Number</u>	<u>Rev / Date</u>	<u>Comment</u>
1.	Quality Plan (Nuclear Qualification Project)	QPL-01	Rev. 3	
2.	TRICON Hardware User Manuals (binder)			
	a) Planning & Installation Guide	9720051-006	Rel. 6	©
	b) User's Manual for Field Terminations	9720052-006	Rel. 6	©
3.	Manuals for Communication Product (binder)			
	a) Network Planning & Installation	9720045-003	Rel. 3	©
	b) Intelligent Communication Modules	9720047-003	Rel. 3	©
	c) Sequence of Events User's Manual	9720042-001	Rel. 1	©
	d) System Aliases Manual	9720054-002	Rel. 2	©
4.	TS 1131 Programmer Manuals plus CD			
	a) Getting Started Guide	9720068-001	Ver. 2.0	©
	b) Users Guide	9720069-001	Ver. 2.0	©
	c) TRICON Libraries	9720066-001	Ver. 2.0	©
5.	Triconex Training Manual	5600-0020/99	1999	©
6.	Technical Product Guide, V 9.4	9791007-005	7/99	©
7.	Technical Product Guide, V 8	9791007-002	2/95	©