

Nuclear Regulatory Commission Staff Disposition of Westinghouse Comments on the NRC's Draft Safety Evaluation Report for
WCAP-16097-P, Rev. 3, "Common Qualified Platform Topical Report"

Comment No.	Section	Page	Text	Comment	NRC Staff Disposition
TR1	2.3	8	"Westinghouse has submitted the Common Q SPM, WCAP-16096 Revision 3, "Software Program Manual for Common Q Systems" (Reference 6) for staff review."	This is a typographical error. It should say: "Westinghouse has submitted the Common Q SPM, WCAP-16096 Revision 4, "Software Program Manual for Common Q Systems" (Reference 6) for staff review."	Agree, However, the reference 6 is already correct so delete the revision number from section 2.3. The new sentence should now be as follows: "Westinghouse has submitted the Common Q SPM, WCAP-16096, "Software Program Manual for Common Q Systems" (Reference 6) for staff review."
TR2	4.1.1.2.2	19	"In addition, custom Program Control (PC) elements can be created as an extension to the base software."	This is a typographical error. This should be: In addition, custom Process Control (PC) elements can be created as an extension to the base software."	Agree, make corrections as recommended.
TR3	4.1.2	27	"Refer to Table 11-1 of the Common Q TR (Reference 2) for a list of FPDS components reviewed for this SE"	This is related to comment TR10. Wording should be changed to: "Refer to Table 1 for a list of FPDS components reviewed for this SE"	Agree, revise sentence as recommended by WEC.

TR4	4.1.3.2	30	<p>“The HSL is a serial RS-432 link that is used for exchanging data between the safety divisions.”</p>	<p>RS-432 should be changed to RS-422.</p> <p>Rev. 3 of the TR mistakenly says RS-485 will be used. This will be changed to RS-422 in the –A version. The currently approved version references RS-422.</p>	<p>Agree, make corrections as recommended by WEC.</p>
TR5	4.1.5	46	<p>The sentences on watchdog timers contain proprietary information.</p>	<p>The information that is considered proprietary is the number of watchdog timers, and the details that result in activating the watchdog timer output relay.</p> <p>This information is marked proprietary in the topical report for the following reasons:</p> <ol style="list-style-type: none"> 2. The information reveals the distinguishing aspects of a process or component, structure, tool, method, etc., and the prevention of its use by competitors of Westinghouse, without license from Westinghouse, gives Westinghouse a competitive economic advantage. 2. The information, if used by a competitor, would reduce the competitor's expenditure of 	<p>Agree,</p> <p>Change wording as suggested by WEC.</p> <p>“Additional watchdog timers are associated with the processing section of the PM646A known as stall timers. These stall timers are designed to force a CPU reset when activated. A CPU reset will in turn activate the watchdog timer output relay.”</p>

				resources or improve the competitor's advantage in the design, manufacture, shipment, installation, assurance of quality, or licensing of a similar product. Therefore, Westinghouse proposes the following wording: "Additional watchdog timers are associated with the processing section of the PM646A known as stall timers. These stall timers are designed to force a CPU reset when activated. A CPU reset will in turn activate the watchdog timer output relay."	
TR6	4.3	58	<p>"Westinghouse submitted WCAP-16096 Revision 2 (Formerly CE-CES-195-P), "Software Program Manual for Common Q Systems,""</p>	<p>This is a typographical error. It should say: "Westinghouse submitted WCAP-16096 Revision 4 (Formerly CE-CES-195-P), "Software Program Manual for Common Q Systems,""</p>	<p>Agree, Replace the first sentence of 4.3 with the following: "WEC submitted WCAP-16096 (Formerly CE-CES-195-P), "Software Program Manual for Common Q™ Systems," (SPM) (Reference 6) for staff review."</p>
TR7	4.6	59	<p>"Per letter dated August 25, 2010 (Reference 19), Westinghouse submitted WCAP-16097, "Common Qualified Platform Record of</p>	<p>This is a typographical error. It should be: "Per letter dated August 25, 2010 (Reference 19), Westinghouse submitted</p>	<p>Agree, make corrections as recommended by WEC.</p>

			Changes, "(Reference 20) for NRC review and approval."	WCAP-16097, Appendix 5, "Common Qualified Platform Record of Changes, "(Reference 20) for NRC review and approval."	
TR8	7.2	67	"Refer to Table 11 of the Common Q TR (Reference 2) for a list of Common Q Power Supply components reviewed for this SE."	This is related to comment TR10. Wording should be changed to: "Refer to Table 1 for a list of Common Q Power Supply components reviewed for this SE."	Agree, revise as suggested by WEC.
TR9	Ref.	69	"20. Common Qualified Platform Record of Changes (WCAP-16097-P/NP), Revision 1, ADAMS Accession Nos. ML2115A215/ML2115A214."	This is a typographical error. This should be: "Common Qualified Platform Record of Changes (WCAP-16097-P/NP, Appendix 5), Revision 1, ADAMS Accession Nos. ML2115A215/ML2115A214."	Agree, make corrections as suggested by WEC.
TR10	Table 1	76	Entire Table and Note	A suggested update is provided to Table 1 to be consistent with Table 11 of the Common Q Topical Report, and the revisions levels specified in Appendix 5, Common Q Platform Record of Changes.	Replace Table 1 with the table at the end of this document with the exception of item 10 (DI621) which will not be included as a qualified component in the SE.

Table 1 Common Q System Qualified Components

<i>Item</i>	<i>Component</i>	<i>Product Revision</i> <i>(Up to this revision reviewed for this SE)</i>	<i>Description</i>
AC160 Hardware Modules			
1	AI620	A	S600 Analog Input Module
2	AI685	G	S600 Analog Input Module
3	AI687	C	S600 Analog Input Module
4	AI688	A	S600 Analog Input Module
5	AO610	A	S600 Analog Output Module
6	AO650	A	S600 Analog Output Module
7	CI527W	C	Communications Interface Module
8	CI631	F	Communications Interface Module
9	DI620	A	S600 Digital Input Module
10	DI621	A	S600 Digital Input Module
11	DO620	C	S600 Digital Output Module
12	DO625	A	S600 Digital Output Module
13	DO630	A	S600 Digital Output Module

Item	Component	Product Revision <i>(Up to this revision reviewed for this SE)</i>	Description
14	DP620	A	S600 Pulse Counter Module
15	PM646A	T	Advant Controller 160 (AC160) Processor Module
16	TC514V2	B	AF100 Fiber-optic Modem
PC Node Box			
17	TL-WEST-002	A	PC Node Box
18	TL-WEST-003-001	C	PC Node Box
19	TL-WEST-003-003	C	PC Node Box
20	Kontron BIOS	3.1	BIOS
21	SUN-WSN-001	L	PC Node Box – 2 TCP/IP
22	SUN-WSN-003	F	PC Node Box – 2 UDP TX
23	SUN-WSN-004	F	PC Node Box – 2 UDP RX
24	SUN-WSN-005	F	PC Node Box – 1 TCP/IP 1 UDP TX
25	SUN-WSN-006	F	PC Node Box – 1 TCP/IP 1 UDP RX
26	VERSALOGIC BIOS	VS-SUNCOR1, Rev. 1 Release 1.00	BIOS
Flat Panel Displays			
27	AVT-12 FPRM/TS-WES	1	12.1" Flat Panel Display
28	AVT-15 FPRM/TS-WES	1	15.0" Flat Panel Display
29	AVT-18 FPRM/TS-WES	1	18.0" Flat Panel Display
30	AVT-18FPRM-CAP-S-W	0	18.0" Flat Panel Display

<i>Item</i>	<i>Component</i>	<i>Product Revision (Up to this revision reviewed for this SE)</i>	<i>Description</i>
31	TFS-18RM-CAP-WES	D	18.0" Flat Panel Display
32	SUN-WSD-006	K	6.5" Flat Panel Display
33	SUN-WSD-012	J	12.1" Flat Panel Display
34	SUN-WSD-015	M	15.0" Flat Panel Display
35	SUN-WSD-019	L	19.0" Flat Panel Display
Fiber Optic Modems			
36	OZDV Fiber Optic Modem A	0404	HSL Fiber Optic Modem
37	OZDV Fiber Optic Modem B	0000	HSL Fiber Optic Modem
Common Q Power Supply			
38	W12-FM	Rev. 5	AC Line Filter Module
39	W1-FEM	Rev. 7	Front-End Module
40	W1-24	Rev. 7	MAXI Module (24Vdc)
41	W1-0524	Rev. 5	Dual MINI Module (5/24Vdc)
42	W1-1500	Rev. 5	Dual MINI Module (15Vdc)
43	W1-282824	Rev. 8	Triple MICRO Module
44	W1-363624	Rev. 1	Triple MICRO Module
QUINT Power Supply			
45	QUINT-PS/1AC/24DC/20/WH	0	24 VDC, 20 Amp
46	QUINT-PS/1AC/24DC/10/WH	0	24 VDC, 10 Amp
47	QUINT-PS/1AC/48DC/5/WH	0	48 VDC, 5 Amp
48	QUINT-PS/1AC/12DC/15/WH	0	12 VDC, 15 Amp
Software Modules			
49	AC160 Base Software	1.3/9	Base Software
50	ACC Tool	1.7/1	Tool
51	QNX 4.25G Operating System	Rev. 4	Operating System

Note: The Common Qualified Platform Record of Changes (Reference 20) defines the revision level and the basis for modules that have changed since the last Safety Evaluation Report.