



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555-0001

JUN 03 1994

Mr. Frank S. Jaggar
Regulatory and Technical Assistance Group
Idaho National Engineering Laboratory
P.O. Box 1625
Idaho Falls, ID 83415

Dear Mr. Jaggar:

This letter is in reply to your submittal of the attached EQB-3 schedule, dated May 18, 1994. As we discussed when you delivered the schedule on May 19, 1994, the submittal does not meet the requirements of the Statement of Work (SOW) for the EQB upgrade task. Specifically, the schedule, as submitted, lacks the following detail:

SOW section F, Technical Reporting Requirements;

- Two items listed in the SOW section E, Work Requirements are not shown on the schedule, namely;
 - conduct formal, peer level source code walk-throughs. These walk throughs are referred to in the activity summary line entry but are not shown in the task level schedules as required by SOW section F.
 - establish non-compliance reporting procedures. This item is not shown at all on the schedule.
- The Gantt representation makes no provision for reporting task status.
- The Gantt representation makes no provision for reporting task percent completion.
- Resource assignments are not included in the Gantt representation.
- Submittal and review completion dates are not provided for each project document listed in SOW section H, Deliverable Documentation.
- Planned dates for staff approvals that constitute prerequisites for starting other tasks are not identified.

SOW section G, Meetings and Travel;

- Progress review meetings at the end of the design phase are not shown on the schedule.
- Validation test performance review meetings are not shown on the schedule.

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Mr. Frank Jaggar

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This schedule, as submitted, is inadequate for management of the EQB upgrade task in accordance with the SOW. Because this initial project schedule serves as the basis for monthly program reporting in accordance with the SOW section H, Deliverable Documentation, these schedule deficiencies must be corrected prior to submittal of the first project monthly progress report letter.

Sincerely,

Original signed by:

Frank Collins, Technical Monitor
 Program Development and Review Section
 Operator Licensing Branch
 Division of Reactor Controls
 and Human Factors, NRR

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#1 6/2

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NAME	FCollins	DLange	RMGallo	JRobertson	Thomas	Boyer
DATE	05/25/94*	05/26/94*	05/26/94*	06/02/94*	6/5/94	6/5/94
COPY DOC	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

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JUN 23 1994

Mr. Frank Jaggar

-2-

This schedule, as submitted, is inadequate for management of the EQB upgrade task in accordance with the SOW. Because this initial project schedule serves as the basis for monthly program reporting in accordance with the SOW section H, Deliverable Documentation, these schedule deficiencies must be corrected prior to submittal of the first project monthly progress report letter.

Sincerely,



Frank Collins, Technical Monitor
Program Development and Review Section
Operator Licensing Branch
Division of Reactor Controls
and Human Factors, NRR

EQB-3

ROW #	TASK NAME	1994												1995											
		03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11			
1	Write configuration management plan	40:00 h																							
2	Develop configuration management plan				0:00 h	06/03/94																			
3	Install hardware and software products	1:30:00 h				06/03/94																			
4	Write sections 1-4 of design description	1:40:00 h				06/03/94																			
5	Complete a draft of the software design description				2:12:00 h																				
6	Complete software SDD					0:00 h	07/25/94																		
7	Independently review the software design description					02:40 h	08/11/94																		
8	Developer Daily review presentation materials (hardware and software)					0:00 h	08/11/94																		
9	Conduct design review and project meeting at NRC					06:00 h	08/24/94																		
10	Complete the design description					0:00 h	09/02/94																		
11	Deliver final SDD					0:00 h	09/02/94																		
12	Deliver hardware installation planning budget in SDD					0:00 h	09/20/94																		
13	Update software requirements specification					48:00 h	08/25/94																		
14	Write the acquisition plan					0:30 h	08/25/94																		
15	Deliver hardware acquisition plan					60:00 h	07/11/94																		
16	Write database porting specification					40:00 h	07/11/94																		
17	Write server computer specification					40:00 h	07/11/94																		
18	Deliver hardware Bq. Spec.					32:00 h	07/11/94																		
19	Finalize non-hd software and hardware					2:40:00 h	08/22/94																		
20	Write draft of workstation test plan					98:40 h	08/26/94																		
21	Independently review workstation test plan					48:00 h	08/31/94																		
22	Complete workstation test plan					2:00 h	09/01/94																		
23	Deliver workstation plan					3:30:00 h	09/01/94																		
24	Final hardware and software					80:00 h	09/22/94																		
25	Final network hardware and software					40:00 h	09/22/94																		
26	Final server					50:00 h	09/22/94																		
27	Final WordPerfect software					1:00 h	1/94																		
28	Setup mail service					40:00 h	09/22/94																		
29	Final and learn database porting					50:00 h	09/22/94																		
30	Setup and populate database					1:00 h	10/1/94																		
31	Build schema					1:00 h	10/1/94																		
32	Convert data					1:00 h	10/1/94																		
33	Code and review (with help) software					2:214:00 h	01/02/95																		
34	Code security software, and display of gateway					440:00 h	01/02/95																		
35	Code communications, login, authentication					2:00 h	01/02/95																		
36	Code search software, and display of QA information					48:00 h	01/02/95																		
37	Code search software, and display of system information					2:24:00 h	02/04/95																		
38	Code network software					50:00 h	01/12/95																		
39	Code system generation					3:12:00 h	01/27/95																		

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Milestone A Summary
NRC Database Issues MIT Database Issues

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Code

509/42434

98.00

EOB-3

ROW	Task Name	Start	Start	End	End	Total	Duration	Effort	Deliverable
#		Date	Date	Date	Date	Cost	(Hours)	(Hours)	
1	Write configuration management plan	09/02/94	09/02/94	09/02/94	09/02/94	\$5,402.76	164.20	80.00	
2	Write configuration management plan	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
3	Write software hardware and software products	09/02/94	09/02/94	09/02/94	09/02/94	\$10,019.89	279.10	129.00	
4	Write section 1-4 of design description	09/02/94	09/02/94	09/02/94	09/02/94	\$11,271.41	233.29	140.00	
5	Complete a draft of the software design description	09/02/94	09/02/94	09/02/94	09/02/94	\$22,001.94	251.69	272.00	
6	Deliver Preliminary SCD	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
7	Independently review the software design description	09/02/94	09/02/94	09/02/94	09/02/94	\$6,814.00	16.00	32.00	
8	Deliver Design review presentation materials/hardware on	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
9	Conduct design review and project meeting at HRC	09/02/94	09/02/94	09/02/94	09/02/94	\$4,024.95	54.80	60.00	
10	Complete the design description	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
11	Deliver Final SCD	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
12	Deliver hardware requirement plan/functional, a SCD	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
13	Update Software Requirement Specification	09/02/94	09/02/94	09/02/94	09/02/94	\$4,137.48	92.40	60.00	
14	Write the execution plan	09/02/94	09/02/94	09/02/94	09/02/94	\$3,477.00	40.10	40.00	
15	Deliver hardware or quality plan	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
16	Write software package specification	09/02/94	09/02/94	09/02/94	09/02/94	\$3,554.94	112.60	40.00	
17	Write server computer specifications	09/02/94	09/02/94	09/02/94	09/02/94	\$3,581.29	121.10	40.00	
18	Deliver Hardware Req. Spec.	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
19	Finalize hardware and hardware	09/02/94	09/02/94	09/02/94	09/02/94	\$2,223.82	112.90	32.00	
20	Write draft of validation test plan	09/02/94	09/02/94	09/02/94	09/02/94	\$1,160.24	234.90	240.00	
21	Independently review validation test plan	09/02/94	09/02/94	09/02/94	09/02/94	\$8,300.00	16.00	98.40	
22	Complete validation test plan	09/02/94	09/02/94	09/02/94	09/02/94	\$3,592.10	28.40	48.00	
23	Deliver validation plan	09/02/94	09/02/94	09/02/94	09/02/94	\$0.00	0.00	0.00	NET
24	Final hardware and software	09/02/94	09/02/94	09/02/94	09/02/94	\$4,040.14	289.80	199.00	
25	Finalize hardware and software	09/02/94	09/02/94	09/02/94	09/02/94	\$6,994.76	113.80	40.00	
26	Finalize software	09/02/94	09/02/94	09/02/94	09/02/94	\$3,245.34	113.70	59.80	
27	Finalize software	09/02/94	09/02/94	09/02/94	09/02/94	\$4,900.00	28.50	63.10	
28	Setup test work	09/02/94	09/02/94	09/02/94	09/02/94	\$3,408.98	40.80	108.00	
29	Final and server database package	09/02/94	09/02/94	09/02/94	09/02/94	\$15,047.48	40.00	192.00	
30	Setup and populate database	09/02/94	09/02/94	09/02/94	09/02/94	\$1,272.80	40.00	192.00	
31	Build schema	09/02/94	09/02/94	09/02/94	09/02/94	\$4,444.00	54.00	48.00	
32	Convert data	09/02/94	09/02/94	09/02/94	09/02/94	\$11,808.00	80.00	144.00	
33	Code and review (write/rev) software	09/02/94	09/02/94	09/02/94	09/02/94	\$688,888.8	882.90	2,218.00	
34	Code search, review, and display of queries	09/02/94	09/02/94	09/02/94	09/02/94	\$27,678.00	940.00	296.00	
35	Code communication, log, qualification	09/02/94	09/02/94	09/02/94	09/02/94	\$86,048.36	244.50	440.00	
36	Code search, review, and display of QA information	09/02/94	09/02/94	09/02/94	09/02/94	\$13,176.00	168.00	168.00	
37	Code search, review, and display of QA information	09/02/94	09/02/94	09/02/94	09/02/94	\$18,544.00	248.00	274.00	
38	Code notebook window	09/02/94	09/02/94	09/02/94	09/02/94	\$3,308.00	64.00	58.00	
39	Code search generation	09/02/94	09/02/94	09/02/94	09/02/94	\$20,116.00	248.00	312.00	
40	Code translation of schema, JP4, and from charts	09/02/94	09/02/94	09/02/94	09/02/94	\$20,326.00	248.00	248.00	
41	Code translation of schema and its queries into the chart	09/02/94	09/02/94	09/02/94	09/02/94	\$8,811.19	146.00	104.00	
42	Code search review	09/02/94	09/02/94	09/02/94	09/02/94	\$3,904.00	90.00	72.00	
43	Code search and export of schema to files	09/02/94	09/02/94	09/02/94	09/02/94	\$3,904.00	48.00	48.00	

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Milestone
 HRC Deliverable
 Resource Detail

EOB-3

Row #	Task Name	Start	Life Start	End	Life End	Total Cost	Duration (Hours)	Effort (Hours)	Deliverable
45	Code printing of report	03/21/93	03/21/93	04/02/93	04/02/93	\$5,904.00	90.00	72.00	
46	Code customization	03/21/93	03/21/93	04/02/93	04/02/93	\$5,256.00	43.00	72.00	
47	Upgrade computer protection plan	04/02/93	04/02/93	04/20/93	04/20/93	\$4,036.28	84.80	84.80	
48	Deliver security plan	04/20/93	05/02/93	04/20/93	05/02/93	\$0.00	0.00	0.00	RFI
49	Write user reference manual	04/02/93	04/02/93	04/20/93	04/20/93	\$11,493.15	88.90	124.70	
50	Deliver EOB-3 user manual	04/20/93	04/20/93	04/20/93	04/20/93	\$0.00	0.00	0.00	RFI
51	Add help screens	04/02/93	04/02/93	04/20/93	04/20/93	\$9,453.14	90.15	112.00	
52	Participate in program review meeting or RMC	04/20/93	04/20/93	04/20/93	04/20/93	\$5,360.00	24.00	40.00	
53	Write maintenance physical plan	04/20/93	04/20/93	05/02/93	05/02/93	\$4,267.96	38.80	56.00	
54	Deliver maintenance physical plan	04/20/93	04/20/93	04/20/93	04/20/93	\$0.00	0.00	0.00	RFI
55	Conduct validation testing and issue report	03/03/93	03/03/93	03/03/93	03/03/93	\$4,148.52	20.20	64.00	
56	Deliver validation testing and issue report	03/03/93	03/03/93	03/03/93	03/03/93	\$0.00	0.00	0.00	RFI
57	Conduct beta testing and issue report	03/03/93	03/03/93	03/03/93	03/03/93	\$8,531.28	28.90	104.00	
58	Deliver beta testing and issue report	03/03/93	03/03/93	03/03/93	03/03/93	\$0.00	0.00	0.00	RFI
59	Upgrade software design description	03/03/93	03/03/93	03/03/93	03/03/93	\$4,504.04	44.40	64.00	
60	Deliver updated software design description	03/03/93	03/03/93	03/03/93	03/03/93	\$0.00	0.00	0.00	RFI
61	Deliver updated software requirements document	03/18/93	04/01/93	03/18/93	04/01/93	\$0.00	0.00	0.00	RFI
62	Develop working materials	03/18/93	04/01/93	03/18/93	04/01/93	\$3,931.40	44.20	64.00	
63	Deliver EOB-3 user training materials	03/18/93	04/01/93	03/18/93	04/01/93	\$0.00	0.00	0.00	RFI
64	Conduct configuration audit	03/18/93	03/18/93	03/18/93	03/18/93	\$3,024.00	20.00	24.00	
65	Deliver at 211 program and source code	03/22/93	03/22/93	03/22/93	03/22/93	\$0.00	0.00	0.00	RFI
66	RFI, Config/Access security plan	03/22/93	03/22/93	03/22/93	03/22/93	\$6,168.00	24.00	72.00	
67	Install systems, such as, and conduct acceptance test of	03/22/93	03/22/93	03/22/93	03/22/93	\$26,548.00	94.80	336.00	
68	Deliver RFI, and high level of amortizing RFI	03/18/93	03/18/93	03/18/93	03/18/93	\$2,400.00	40.00	40.00	
69	Deployment of replaced EOB equipment	03/22/93	03/22/93	03/22/93	03/22/93	\$44,847.70	2,264.00	512.00	
70	Project management								

Period: 03/18/93
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Attendance A
 NRC Deliverable NRC
 Resource Entry R
 Summary S
 NRC Deliverable NRC
 Fixed Delay F