Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*MAY07*	*JUN07*	*JUL07*	*AUG07*
1.7 DAQ R&D							
	1.7.5.5 DAQ R&D						
		1.7.1.4.3.1 Find candidates for run control system software	BCWS	9,839	0	0	0
		1.7.1.4.3.2 Evaluate run control system candidates	BCWS	3,810	10,248	5,620	0
		1.7.1.4.3.3 Review run control system evaluations	BCWS	0	0	1,968	0
		1.7.1.4.4.1 Develop initial run control system framework	BCWS	0	0	300	3,448
		1.7.1.4.4.10 Develop run control system test and verification suite -	BCWS	0	0	0	0
		1.7.1.4.4.2 Develop initial run control command line interface	BCWS	0	0	0	0
		1.7.1.4.4.3 Develop run control system test and verification suite	BCWS	0	0	0	0
		1.7.1.4.4.4 Write run control system user documentation	BCWS	0	0	0	0
		1.7.1.4.4.5 Perform run control system tests and verification for firs	BCWS	0	0	0	0
		1.7.1.4.4.6 Review run control system software, tests and documentatio	BCWS	0	0	0	0
		1.7.1.4.4.8 Develop initial run control system framework - Part 2	BCWS	0	0	0	0
		1.7.1.4.4.9 Develop initial run control command line interface - Part	BCWS	0	0	0	0
		1.7.1.6.3.1.10 Write event buffer farm core software user documentatio	BCWS	0	0	0	0
		1.7.1.6.3.1.11 Perform event buffer farm core software tests and verif	BCWS	0	0	0	0
		1.7.1.6.3.1.12 Review event buffer farm core software, tests and docum	BCWS	0	0	0	0
		1.7.1.6.3.1.14 Integrate run control support in the event buffer farm	BCWS	0	0	0	0
		1.7.1.6.3.1.15 Write event buffer farm core software test and verifica	BCWS	0	0	0	0
		1.7.1.6.3.1.8 Integrate run control support in the event buffer farm c	BCWS	0	0	0	0
		1.7.1.6.3.1.9 Write event buffer farm core software test and verificat	BCWS	0	0	0	0
		1.7.1.6.4.1.1 Write first release event buffer farm server code	BCWS	2,074	1,980	1,980	2,168
		1.7.1.6.4.1.2 Write event buffer farm server test and verification sui	BCWS	1,665	1,589	1,589	76
		1.7.1.6.4.1.3 Write event buffer farm server user documentation for so	BCWS	0	0	0	0
		1.7.1.6.4.1.4 Perform event buffer farm server tests and verification	BCWS	0	0	0	0
		1.7.1.6.4.1.5 Review event buffer farm server, tests and documentation	BCWS	0	0	0	0
		1.7.1.6.4.1.7 Write first release event buffer farm server code - Part	BCWS	0	0	0	0
		1.7.1.6.4.1.8 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.7.1.1 Data logger requirements document draft	BCWS	0	0	0	0
		1.7.1.7.1.2 Review data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.1.3 Finalize data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.2.1 Data logger design document draft	BCWS	0	0	0	0
		1.7.1.7.2.2 Review data logger design document	BCWS	0	0	0	0
		1.7.1.7.2.3 Finalize data logger design document	BCWS	0	0	0	0
		1.7.1.8.3.1 Develop initial global trigger server framework	BCWS	0	0	0	0
		1.7.1.8.3.2 Write global trigger system test and verification suite fo	BCWS	0	0	0	0
		1.7.1.8.3.3 Write global trigger system user documentation for softwar	BCWS	0	0	0	0
		1.7.1.8.3.4 Perform global trigger system tests and verification for s	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		SEP07	OCT07	NOV07	DEC07
1.7 DAQ R&D							
	1.7.5.5 DAQ R&D						
		1.7.1.4.3.1 Find candidates for run control system software	BCWS	0	0	0	0
		1.7.1.4.3.2 Evaluate run control system candidates	BCWS	0	0	0	0
		1.7.1.4.3.3 Review run control system evaluations	BCWS	0	0	0	0
		1.7.1.4.4.1 Develop initial run control system framework	BCWS	2,849	3,614	3,142	2,828
		1.7.1.4.4.10 Develop run control system test and verification suite -	BCWS	0	0	0	0
		1.7.1.4.4.2 Develop initial run control command line interface	BCWS	0	3,110	2,705	2,434
		1.7.1.4.4.3 Develop run control system test and verification suite	BCWS	0	3,110	2,705	2,434
		1.7.1.4.4.4 Write run control system user documentation	BCWS	0	0	0	0
		1.7.1.4.4.5 Perform run control system tests and verification for firs	BCWS	0	0	0	0
		1.7.1.4.4.6 Review run control system software, tests and documentatio	BCWS	0	0	0	0
		1.7.1.4.4.8 Develop initial run control system framework - Part 2	BCWS	0	0	0	0
		1.7.1.4.4.9 Develop initial run control command line interface - Part	BCWS	0	0	0	0
		1.7.1.6.3.1.10 Write event buffer farm core software user documentatio	BCWS	0	0	0	0
		1.7.1.6.3.1.11 Perform event buffer farm core software tests and verif	BCWS	0	0	0	0
		1.7.1.6.3.1.12 Review event buffer farm core software, tests and docum	BCWS	0	0	0	0
		1.7.1.6.3.1.14 Integrate run control support in the event buffer farm	BCWS	0	0	0	0
		1.7.1.6.3.1.15 Write event buffer farm core software test and verifica	BCWS	0	0	0	0
		1.7.1.6.3.1.8 Integrate run control support in the event buffer farm c	BCWS	0	1,944	1,690	1,521
		1.7.1.6.3.1.9 Write event buffer farm core software test and verificat	BCWS	0	1,944	1,690	1,521
		1.7.1.6.4.1.1 Write first release event buffer farm server code	BCWS	1,791	2,272	1,976	1,778
		1.7.1.6.4.1.2 Write event buffer farm server test and verification sui	BCWS	0	988	43	2,062
		1.7.1.6.4.1.3 Write event buffer farm server user documentation for so	BCWS	0	0	0	0
		1.7.1.6.4.1.4 Perform event buffer farm server tests and verification	BCWS	0	0	0	0
		1.7.1.6.4.1.5 Review event buffer farm server, tests and documentation	BCWS	0	0	0	0
		1.7.1.6.4.1.7 Write first release event buffer farm server code - Part	BCWS	0	0	0	0
		1.7.1.6.4.1.8 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.7.1.1 Data logger requirements document draft	BCWS	0	0	0	0
		1.7.1.7.1.2 Review data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.1.3 Finalize data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.2.1 Data logger design document draft	BCWS	0	0	0	0
		1.7.1.7.2.2 Review data logger design document	BCWS	0	0	0	0
		1.7.1.7.2.3 Finalize data logger design document	BCWS	0	0	0	0
		1.7.1.8.3.1 Develop initial global trigger server framework	BCWS	0	0	0	0
		1.7.1.8.3.2 Write global trigger system test and verification suite fo	BCWS	0	0	0	0
		1.7.1.8.3.3 Write global trigger system user documentation for softwar	BCWS	0	0	0	0
		1.7.1.8.3.4 Perform global trigger system tests and verification for s	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB09	MAR09	APR09	MAY09
1.7 DAQ R&D							
	1.7.5.5 DAQ R&D						
		1.7.1.4.3.1 Find candidates for run control system software	BCWS	0	0	0	0
		1.7.1.4.3.2 Evaluate run control system candidates	BCWS	0	0	0	0
		1.7.1.4.3.3 Review run control system evaluations	BCWS	0	0	0	0
		1.7.1.4.4.1 Develop initial run control system framework	BCWS	0	0	0	0
		1.7.1.4.4.10 Develop run control system test and verification suite -	BCWS	2,161	0	0	0
		1.7.1.4.4.2 Develop initial run control command line interface	BCWS	0	0	0	0
		1.7.1.4.4.3 Develop run control system test and verification suite	BCWS	0	0	0	0
		1.7.1.4.4.4 Write run control system user documentation	BCWS	5,403	0	0	0
		1.7.1.4.4.5 Perform run control system tests and verification for firs	BCWS	2,161	0	0	0
		1.7.1.4.4.6 Review run control system software, tests and documentatio	BCWS	3,242	1,081	0	0
		1.7.1.4.4.8 Develop initial run control system framework - Part 2	BCWS	4,322	0	0	0
		1.7.1.4.4.9 Develop initial run control command line interface - Part	BCWS	2,161	0	0	0
		1.7.1.6.3.1.10 Write event buffer farm core software user documentatio	BCWS	0	0	0	5,403
		1.7.1.6.3.1.11 Perform event buffer farm core software tests and verif	BCWS	0	0	0	2,161
		1.7.1.6.3.1.12 Review event buffer farm core software, tests and docum	BCWS	0	0	0	618
		1.7.1.6.3.1.14 Integrate run control support in the event buffer farm	BCWS	5,403	0	0	0
		1.7.1.6.3.1.15 Write event buffer farm core software test and verifica	BCWS	1,081	4,322	0	0
		1.7.1.6.3.1.8 Integrate run control support in the event buffer farm c	BCWS	0	0	0	0
		1.7.1.6.3.1.9 Write event buffer farm core software test and verificat	BCWS	0	0	0	0
		1.7.1.6.4.1.1 Write first release event buffer farm server code	BCWS	0	0	0	0
		1.7.1.6.4.1.2 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.6.4.1.3 Write event buffer farm server user documentation for so	BCWS	4,863	540	0	0
		1.7.1.6.4.1.4 Perform event buffer farm server tests and verification	BCWS	4,863	540	0	0
		1.7.1.6.4.1.5 Review event buffer farm server, tests and documentation	BCWS	0	0	2,101	3,302
		1.7.1.6.4.1.7 Write first release event buffer farm server code - Part	BCWS	4,322	0	0	0
		1.7.1.6.4.1.8 Write event buffer farm server test and verification sui	BCWS	2,161	0	0	0
		1.7.1.7.1.1 Data logger requirements document draft	BCWS	0	0	0	0
		1.7.1.7.1.2 Review data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.1.3 Finalize data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.2.1 Data logger design document draft	BCWS	0	0	0	0
		1.7.1.7.2.2 Review data logger design document	BCWS	0	0	0	0
		1.7.1.7.2.3 Finalize data logger design document	BCWS	0	0	0	0
		1.7.1.8.3.1 Develop initial global trigger server framework	BCWS	0	0	0	0
		1.7.1.8.3.2 Write global trigger system test and verification suite fo	BCWS	0	0	0	0
		1.7.1.8.3.3 Write global trigger system user documentation for softwar	BCWS	0	0	0	0
		1.7.1.8.3.4 Perform global trigger system tests and verification for s	BCWS	0	0	0	0

Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*JUN09*	*JUL09*	*AUG09*	*SEP09*
1.7 DAQ R&D							
	1.7.5.5 DAQ R&D						
		1.7.1.4.3.1 Find candidates for run control system software	BCWS	0	0	0	0
		1.7.1.4.3.2 Evaluate run control system candidates	BCWS	0	0	0	0
		1.7.1.4.3.3 Review run control system evaluations	BCWS	0	0	0	0
		1.7.1.4.4.1 Develop initial run control system framework	BCWS	0	0	0	0
		1.7.1.4.4.10 Develop run control system test and verification suite -	BCWS	0	0	0	0
		1.7.1.4.4.2 Develop initial run control command line interface	BCWS	0	0	0	0
		1.7.1.4.4.3 Develop run control system test and verification suite	BCWS	0	0	0	0
		1.7.1.4.4.4 Write run control system user documentation	BCWS	0	0	0	0
		1.7.1.4.4.5 Perform run control system tests and verification for firs	BCWS	0	0	0	0
		1.7.1.4.4.6 Review run control system software, tests and documentatio	BCWS	0	0	0	0
		1.7.1.4.4.8 Develop initial run control system framework - Part 2	BCWS	0	0	0	0
		1.7.1.4.4.9 Develop initial run control command line interface - Part	BCWS	0	0	0	0
		1.7.1.6.3.1.10 Write event buffer farm core software user documentatio	BCWS	0	0	0	0
		1.7.1.6.3.1.11 Perform event buffer farm core software tests and verif	BCWS	0	0	0	0
		1.7.1.6.3.1.12 Review event buffer farm core software, tests and docum	BCWS	3,705	0	0	0
		1.7.1.6.3.1.14 Integrate run control support in the event buffer farm	BCWS	0	0	0	0
		1.7.1.6.3.1.15 Write event buffer farm core software test and verifica	BCWS	0	0	0	0
		1.7.1.6.3.1.8 Integrate run control support in the event buffer farm c	BCWS	0	0	0	0
		1.7.1.6.3.1.9 Write event buffer farm core software test and verificat	BCWS	0	0	0	0
		1.7.1.6.4.1.1 Write first release event buffer farm server code	BCWS	0	0	0	0
		1.7.1.6.4.1.2 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.6.4.1.3 Write event buffer farm server user documentation for so	BCWS	0	0	0	0
		1.7.1.6.4.1.4 Perform event buffer farm server tests and verification	BCWS	0	0	0	0
		1.7.1.6.4.1.5 Review event buffer farm server, tests and documentation	BCWS	0	0	0	0
		1.7.1.6.4.1.7 Write first release event buffer farm server code - Part	BCWS	0	0	0	0
		1.7.1.6.4.1.8 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.7.1.1 Data logger requirements document draft	BCWS	0	0	0	0
		1.7.1.7.1.2 Review data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.1.3 Finalize data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.2.1 Data logger design document draft	BCWS	0	0	0	0
		1.7.1.7.2.2 Review data logger design document	BCWS	0	0	0	0
		1.7.1.7.2.3 Finalize data logger design document	BCWS	0	0	0	0
		1.7.1.8.3.1 Develop initial global trigger server framework	BCWS	0	0	0	0
		1.7.1.8.3.2 Write global trigger system test and verification suite fo	BCWS	0	0	0	0
		1.7.1.8.3.3 Write global trigger system user documentation for softwar	BCWS	0	0	0	0
		1.7.1.8.3.4 Perform global trigger system tests and verification for s	BCWS	0	0	0	0

Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*OCT09*	*NOV09*	*DEC09*	*JAN10*
1.7 DAQ R&D							
	1.7.5.5 DAQ R&D						
		1.7.1.4.3.1 Find candidates for run control system software	BCWS	0	0	0	0
		1.7.1.4.3.2 Evaluate run control system candidates	BCWS	0	0	0	0
		1.7.1.4.3.3 Review run control system evaluations	BCWS	0	0	0	0
		1.7.1.4.4.1 Develop initial run control system framework	BCWS	0	0	0	0
		1.7.1.4.4.10 Develop run control system test and verification suite -	BCWS	0	0	0	0
		1.7.1.4.4.2 Develop initial run control command line interface	BCWS	0	0	0	0
		1.7.1.4.4.3 Develop run control system test and verification suite	BCWS	0	0	0	0
		1.7.1.4.4.4 Write run control system user documentation	BCWS	0	0	0	0
		1.7.1.4.4.5 Perform run control system tests and verification for firs	BCWS	0	0	0	0
		1.7.1.4.4.6 Review run control system software, tests and documentatio	BCWS	0	0	0	0
		1.7.1.4.4.8 Develop initial run control system framework - Part 2	BCWS	0	0	0	0
		1.7.1.4.4.9 Develop initial run control command line interface - Part	BCWS	0	0	0	0
		1.7.1.6.3.1.10 Write event buffer farm core software user documentatio	BCWS	0	0	0	0
		1.7.1.6.3.1.11 Perform event buffer farm core software tests and verif	BCWS	0	0	0	0
		1.7.1.6.3.1.12 Review event buffer farm core software, tests and docum	BCWS	0	0	0	0
		1.7.1.6.3.1.14 Integrate run control support in the event buffer farm	BCWS	0	0	0	0
		1.7.1.6.3.1.15 Write event buffer farm core software test and verifica	BCWS	0	0	0	0
		1.7.1.6.3.1.8 Integrate run control support in the event buffer farm c	BCWS	0	0	0	0
		1.7.1.6.3.1.9 Write event buffer farm core software test and verificat	BCWS	0	0	0	0
		1.7.1.6.4.1.1 Write first release event buffer farm server code	BCWS	0	0	0	0
		1.7.1.6.4.1.2 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.6.4.1.3 Write event buffer farm server user documentation for so	BCWS	0	0	0	0
		1.7.1.6.4.1.4 Perform event buffer farm server tests and verification	BCWS	0	0	0	0
		1.7.1.6.4.1.5 Review event buffer farm server, tests and documentation	BCWS	0	0	0	0
		1.7.1.6.4.1.7 Write first release event buffer farm server code - Part	BCWS	0	0	0	0
		1.7.1.6.4.1.8 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.7.1.1 Data logger requirements document draft	BCWS	0	0	0	0
		1.7.1.7.1.2 Review data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.1.3 Finalize data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.2.1 Data logger design document draft	BCWS	0	0	0	0
		1.7.1.7.2.2 Review data logger design document	BCWS	0	0	0	0
		1.7.1.7.2.3 Finalize data logger design document	BCWS	0	0	0	0
		1.7.1.8.3.1 Develop initial global trigger server framework	BCWS	0	0	0	0
		1.7.1.8.3.2 Write global trigger system test and verification suite fo	BCWS	0	0	0	0
		1.7.1.8.3.3 Write global trigger system user documentation for softwar	BCWS	0	0	0	0
		1.7.1.8.3.4 Perform global trigger system tests and verification for s	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB10	MAR10	APR10	MAY10
1.7 DAQ R&D							
	1.7.5.5 DAQ R&D						
		1.7.1.4.3.1 Find candidates for run control system software	BCWS	0	0	0	0
		1.7.1.4.3.2 Evaluate run control system candidates	BCWS	0	0	0	0
		1.7.1.4.3.3 Review run control system evaluations	BCWS	0	0	0	0
		1.7.1.4.4.1 Develop initial run control system framework	BCWS	0	0	0	0
		1.7.1.4.4.10 Develop run control system test and verification suite -	BCWS	0	0	0	0
		1.7.1.4.4.2 Develop initial run control command line interface	BCWS	0	0	0	0
		1.7.1.4.4.3 Develop run control system test and verification suite	BCWS	0	0	0	0
		1.7.1.4.4.4 Write run control system user documentation	BCWS	0	0	0	0
		1.7.1.4.4.5 Perform run control system tests and verification for firs	BCWS	0	0	0	0
		1.7.1.4.4.6 Review run control system software, tests and documentatio	BCWS	0	0	0	0
		1.7.1.4.4.8 Develop initial run control system framework - Part 2	BCWS	0	0	0	0
		1.7.1.4.4.9 Develop initial run control command line interface - Part	BCWS	0	0	0	0
		1.7.1.6.3.1.10 Write event buffer farm core software user documentatio	BCWS	0	0	0	0
		1.7.1.6.3.1.11 Perform event buffer farm core software tests and verif	BCWS	0	0	0	0
		1.7.1.6.3.1.12 Review event buffer farm core software, tests and docum	BCWS	0	0	0	0
		1.7.1.6.3.1.14 Integrate run control support in the event buffer farm	BCWS	0	0	0	0
		1.7.1.6.3.1.15 Write event buffer farm core software test and verifica	BCWS	0	0	0	0
		1.7.1.6.3.1.8 Integrate run control support in the event buffer farm c	BCWS	0	0	0	0
		1.7.1.6.3.1.9 Write event buffer farm core software test and verificat	BCWS	0	0	0	0
		1.7.1.6.4.1.1 Write first release event buffer farm server code	BCWS	0	0	0	0
		1.7.1.6.4.1.2 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.6.4.1.3 Write event buffer farm server user documentation for so	BCWS	0	0	0	0
		1.7.1.6.4.1.4 Perform event buffer farm server tests and verification	BCWS	0	0	0	0
		1.7.1.6.4.1.5 Review event buffer farm server, tests and documentation	BCWS	0	0	0	0
		1.7.1.6.4.1.7 Write first release event buffer farm server code - Part	BCWS	0	0	0	0
		1.7.1.6.4.1.8 Write event buffer farm server test and verification sui	BCWS	0	0	0	0
		1.7.1.7.1.1 Data logger requirements document draft	BCWS	0	0	0	0
		1.7.1.7.1.2 Review data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.1.3 Finalize data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.2.1 Data logger design document draft	BCWS	0	0	0	0
		1.7.1.7.2.2 Review data logger design document	BCWS	0	0	0	0
		1.7.1.7.2.3 Finalize data logger design document	BCWS	0	0	0	0
		1.7.1.8.3.1 Develop initial global trigger server framework	BCWS	0	0	0	0
		1.7.1.8.3.2 Write global trigger system test and verification suite fo	BCWS	0	0	0	0
		1.7.1.8.3.3 Write global trigger system user documentation for softwar	BCWS	0	0	0	0
		1.7.1.8.3.4 Perform global trigger system tests and verification for s	BCWS	0	0	0	0

Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*JUN10*	*JUL10*	*AUG10*	*Cumulative*
1.7 DAQ R&D							
	1.7.5.5 DAQ R&D						
		1.7.1.4.3.1 Find candidates for run control system software	BCWS	0	0	0	9,839
		1.7.1.4.3.2 Evaluate run control system candidates	BCWS	0	0	0	19,678
		1.7.1.4.3.3 Review run control system evaluations	BCWS	0	0	0	1,968
		1.7.1.4.4.1 Develop initial run control system framework	BCWS	0	0	0	16,181
		1.7.1.4.4.10 Develop run control system test and verification suite -	BCWS	0	0	0	2,161
		1.7.1.4.4.2 Develop initial run control command line interface	BCWS	0	0	0	8,249
		1.7.1.4.4.3 Develop run control system test and verification suite	BCWS	0	0	0	8,249
		1.7.1.4.4.4 Write run control system user documentation	BCWS	0	0	0	5,403
		1.7.1.4.4.5 Perform run control system tests and verification for firs	BCWS	0	0	0	2,161
		1.7.1.4.4.6 Review run control system software, tests and documentatio	BCWS	0	0	0	4,322
		1.7.1.4.4.8 Develop initial run control system framework - Part 2	BCWS	0	0	0	4,322
		1.7.1.4.4.9 Develop initial run control command line interface - Part	BCWS	0	0	0	2,161
		1.7.1.6.3.1.10 Write event buffer farm core software user documentatio	BCWS	0	0	0	5,403
		1.7.1.6.3.1.11 Perform event buffer farm core software tests and verif	BCWS	0	0	0	2,161
		1.7.1.6.3.1.12 Review event buffer farm core software, tests and docum	BCWS	0	0	0	4,323
		1.7.1.6.3.1.14 Integrate run control support in the event buffer farm	BCWS	0	0	0	5,403
		1.7.1.6.3.1.15 Write event buffer farm core software test and verifica	BCWS	0	0	0	5,403
		1.7.1.6.3.1.8 Integrate run control support in the event buffer farm c	BCWS	0	0	0	5,156
		1.7.1.6.3.1.9 Write event buffer farm core software test and verificat	BCWS	0	0	0	5,156
		1.7.1.6.4.1.1 Write first release event buffer farm server code	BCWS	0	0	0	16,018
		1.7.1.6.4.1.2 Write event buffer farm server test and verification sui	BCWS	0	0	0	8,013
		1.7.1.6.4.1.3 Write event buffer farm server user documentation for so	BCWS	0	0	0	5,403
		1.7.1.6.4.1.4 Perform event buffer farm server tests and verification	BCWS	0	0	0	5,403
		1.7.1.6.4.1.5 Review event buffer farm server, tests and documentation	BCWS	0	0	0	5,403
		1.7.1.6.4.1.7 Write first release event buffer farm server code - Part	BCWS	0	0	0	4,322
		1.7.1.6.4.1.8 Write event buffer farm server test and verification sui	BCWS	0	0	0	2,161
		1.7.1.7.1.1 Data logger requirements document draft	BCWS	0	0	0	0
		1.7.1.7.1.2 Review data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.1.3 Finalize data logger requirements document	BCWS	0	0	0	0
		1.7.1.7.2.1 Data logger design document draft	BCWS	0	0	0	0
		1.7.1.7.2.2 Review data logger design document	BCWS	0	0	0	0
		1.7.1.7.2.3 Finalize data logger design document	BCWS	0	0	0	0
		1.7.1.8.3.1 Develop initial global trigger server framework	BCWS	0	0	0	0
		1.7.1.8.3.2 Write global trigger system test and verification suite fo	BCWS	0	0	0	0
		1.7.1.8.3.3 Write global trigger system user documentation for softwar	BCWS	0	0	0	0
		1.7.1.8.3.4 Perform global trigger system tests and verification for s	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		MAY07	JUN07	JUL07	AUG07
		1.7.1.8.3.5 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.8.4.1 Develop beam signal trigger	BCWS	0	0	0	0
		1.7.1.8.4.2 Integrate error handling and monitoring support in the glo	BCWS	0	0	0	0
		1.7.1.8.4.3 Integrate run control support in the global trigger server	BCWS	0	0	0	0
		1.7.1.8.4.4 Update global trigger system test and verification suite f	BCWS	0	0	0	0
		1.7.1.8.4.5 Update global trigger system user documentation for softwa	BCWS	0	0	0	0
		1.7.1.8.4.6 Perform global trigger system tests and verification for s	BCWS	0	0	0	0
		1.7.1.8.4.7 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.9.1.1 DAQ monitor system requirements document draft	BCWS	0	0	0	0
		1.7.1.9.1.2 Review DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.1.3 Finalize DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.2.1 DAQ monitor system design document draft	BCWS	0	0	0	0
		1.7.1.9.2.2 Review DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.2.3 Finalize DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.3.1 Find candidates for DAQ monitor software and development l	BCWS	0	0	0	0
		1.7.1.9.3.2 Evaluate DAQ monitor software and development languages	BCWS	0	0	0	0
		1.7.1.9.3.3 Review DAQ monitor software and development languages eval	BCWS	0	0	0	0
		1.7.2.1.5.1.1 Prepare specifications document	BCWS	4,762	0	0	0
		1.7.2.1.5.2.1 Schematic entry	BCWS	0	0	0	0
		1.7.2.1.5.2.2 Schematic entry - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.3 Board design	BCWS	0	0	0	0
		1.7.2.1.5.4 Simulation	BCWS	0	0	0	0
		1.7.2.1.5.5 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.6 Simulation - Part 2	BCWS	0	0	0	0
		1.7.2.1.6.1.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.1.6.1.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.1.6.1.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.1.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.3 Assemble IPND data concentrators	BCWS	0	0	0	0
		1.7.2.1.7.1 Perform standalone boards tests	BCWS	0	0	0	0
		1.7.2.1.7.2 Perform interface tests	BCWS	0	0	0	0
		1.7.2.2.2.3.1 Generate schematic symbols	BCWS	3,999	0	0	0
		1.7.2.2.2.3.2 Enter schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.3 Review schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.5 Enter schematic - Part 2	BCWS	0	0	0	0
		1.7.2.2.2.4.1 Design FPGA firmware	BCWS	0	0	0	0
		1.7.2.2.2.4.2 Design embedded software	BCWS	0	0	0	0
		1.7.2.2.2.4.3 Design FPGA firmware - Part 2	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		SEP07	OCT07	NOV07	DEC07
		1.7.1.8.3.5 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.8.4.1 Develop beam signal trigger	BCWS	0	0	0	0
		1.7.1.8.4.2 Integrate error handling and monitoring support in the glo	BCWS	0	0	0	0
		1.7.1.8.4.3 Integrate run control support in the global trigger server	BCWS	0	0	0	0
		1.7.1.8.4.4 Update global trigger system test and verification suite f	BCWS	0	0	0	0
		1.7.1.8.4.5 Update global trigger system user documentation for softwa	BCWS	0	0	0	0
		1.7.1.8.4.6 Perform global trigger system tests and verification for s	BCWS	0	0	0	0
		1.7.1.8.4.7 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.9.1.1 DAQ monitor system requirements document draft	BCWS	0	0	0	0
		1.7.1.9.1.2 Review DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.1.3 Finalize DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.2.1 DAQ monitor system design document draft	BCWS	0	0	0	0
		1.7.1.9.2.2 Review DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.2.3 Finalize DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.3.1 Find candidates for DAQ monitor software and development l	BCWS	0	0	0	0
		1.7.1.9.3.2 Evaluate DAQ monitor software and development languages	BCWS	0	0	0	0
		1.7.1.9.3.3 Review DAQ monitor software and development languages eval	BCWS	0	0	0	0
		1.7.2.1.5.1.1 Prepare specifications document	BCWS	0	0	0	0
		1.7.2.1.5.2.1 Schematic entry	BCWS	0	0	4,728	4,255
		1.7.2.1.5.2.2 Schematic entry - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.3 Board design	BCWS	0	0	3,970	3,573
		1.7.2.1.5.4 Simulation	BCWS	0	0	7,092	6,383
		1.7.2.1.5.5 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.6 Simulation - Part 2	BCWS	0	0	0	0
		1.7.2.1.6.1.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.1.6.1.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.1.6.1.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.1.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.3 Assemble IPND data concentrators	BCWS	0	0	0	0
		1.7.2.1.7.1 Perform standalone boards tests	BCWS	0	0	0	0
		1.7.2.1.7.2 Perform interface tests	BCWS	0	0	0	0
		1.7.2.2.2.3.1 Generate schematic symbols	BCWS	0	0	0	0
		1.7.2.2.2.3.2 Enter schematic	BCWS	0	0	8,983	17,967
		1.7.2.2.2.3.3 Review schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.5 Enter schematic - Part 2	BCWS	0	0	0	0
		1.7.2.2.2.4.1 Design FPGA firmware	BCWS	0	8,468	7,363	6,627
		1.7.2.2.2.4.2 Design embedded software	BCWS	0	0	0	0
		1.7.2.2.2.4.3 Design FPGA firmware - Part 2	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB09	MAR09	APR09	MAY09
		1.7.1.8.3.5 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.8.4.1 Develop beam signal trigger	BCWS	0	0	0	0
		1.7.1.8.4.2 Integrate error handling and monitoring support in the glo	BCWS	0	0	0	0
		1.7.1.8.4.3 Integrate run control support in the global trigger server	BCWS	0	0	0	0
		1.7.1.8.4.4 Update global trigger system test and verification suite f	BCWS	0	0	0	0
		1.7.1.8.4.5 Update global trigger system user documentation for softwa	BCWS	0	0	0	0
		1.7.1.8.4.6 Perform global trigger system tests and verification for s	BCWS	0	0	0	0
		1.7.1.8.4.7 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.9.1.1 DAQ monitor system requirements document draft	BCWS	10,806	0	0	0
		1.7.1.9.1.2 Review DAQ monitor requirements document	BCWS	0	0	2,779	1,544
		1.7.1.9.1.3 Finalize DAQ monitor requirements document	BCWS	0	0	0	4,323
		1.7.1.9.2.1 DAQ monitor system design document draft	BCWS	0	0	0	309
		1.7.1.9.2.2 Review DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.2.3 Finalize DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.3.1 Find candidates for DAQ monitor software and development l	BCWS	0	0	0	0
		1.7.1.9.3.2 Evaluate DAQ monitor software and development languages	BCWS	0	0	0	0
		1.7.1.9.3.3 Review DAQ monitor software and development languages eval	BCWS	0	0	0	0
		1.7.2.1.5.1.1 Prepare specifications document	BCWS	0	0	0	0
		1.7.2.1.5.2.1 Schematic entry	BCWS	0	0	0	0
		1.7.2.1.5.2.2 Schematic entry - Part 2	BCWS	1,046	0	0	0
		1.7.2.1.5.3 Board design	BCWS	0	0	0	0
		1.7.2.1.5.4 Simulation	BCWS	0	0	0	0
		1.7.2.1.5.5 Board design - Part 2	BCWS	878	0	0	0
		1.7.2.1.5.6 Simulation - Part 2	BCWS	1,569	0	0	0
		1.7.2.1.6.1.1 Write purchase requests	BCWS	2,092	0	0	0
		1.7.2.1.6.1.2 Obtain project approvals	BCWS	1,046	0	0	0
		1.7.2.1.6.1.3 Write purchase orders	BCWS	1,255	837	0	0
		1.7.2.1.6.1.4 Place purchase orders	BCWS	0	18,554	0	0
		1.7.2.1.6.3 Assemble IPND data concentrators	BCWS	0	0	7,905	13,175
		1.7.2.1.7.1 Perform standalone boards tests	BCWS	0	0	0	0
		1.7.2.1.7.2 Perform interface tests	BCWS	0	0	0	0
		1.7.2.2.2.3.1 Generate schematic symbols	BCWS	0	0	0	0
		1.7.2.2.2.3.2 Enter schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.3 Review schematic	BCWS	2,092	0	0	0
		1.7.2.2.2.3.5 Enter schematic - Part 2	BCWS	3,138	0	0	0
		1.7.2.2.2.4.1 Design FPGA firmware	BCWS	0	0	0	0
		1.7.2.2.2.4.2 Design embedded software	BCWS	16,209	0	0	0
		1.7.2.2.2.4.3 Design FPGA firmware - Part 2	BCWS	7,845	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
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Control Ac	CT	WP		JUN09	JUL09	AUG09	SEP09
		1.7.1.8.3.5 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.8.4.1 Develop beam signal trigger	BCWS	0	0	0	0
		1.7.1.8.4.2 Integrate error handling and monitoring support in the glo	BCWS	0	0	0	0
		1.7.1.8.4.3 Integrate run control support in the global trigger server	BCWS	0	0	0	0
		1.7.1.8.4.4 Update global trigger system test and verification suite f	BCWS	0	0	0	0
		1.7.1.8.4.5 Update global trigger system user documentation for softwa	BCWS	0	0	0	0
		1.7.1.8.4.6 Perform global trigger system tests and verification for s	BCWS	0	0	0	0
		1.7.1.8.4.7 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.9.1.1 DAQ monitor system requirements document draft	BCWS	0	0	0	0
		1.7.1.9.1.2 Review DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.1.3 Finalize DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.2.1 DAQ monitor system design document draft	BCWS	6,793	6,793	6,484	1,235
		1.7.1.9.2.2 Review DAQ monitor system design document	BCWS	0	0	0	4,323
		1.7.1.9.2.3 Finalize DAQ monitor system design document	BCWS	0	0	0	926
		1.7.1.9.3.1 Find candidates for DAQ monitor software and development l	BCWS	0	0	0	0
		1.7.1.9.3.2 Evaluate DAQ monitor software and development languages	BCWS	0	0	0	0
		1.7.1.9.3.3 Review DAQ monitor software and development languages eval	BCWS	0	0	0	0
		1.7.2.1.5.1.1 Prepare specifications document	BCWS	0	0	0	0
		1.7.2.1.5.2.1 Schematic entry	BCWS	0	0	0	0
		1.7.2.1.5.2.2 Schematic entry - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.3 Board design	BCWS	0	0	0	0
		1.7.2.1.5.4 Simulation	BCWS	0	0	0	0
		1.7.2.1.5.5 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.6 Simulation - Part 2	BCWS	0	0	0	0
		1.7.2.1.6.1.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.1.6.1.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.1.6.1.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.1.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.3 Assemble IPND data concentrators	BCWS	5,270	0	0	0
		1.7.2.1.7.1 Perform standalone boards tests	BCWS	22,060	25,211	0	0
		1.7.2.1.7.2 Perform interface tests	BCWS	0	5,773	13,471	0
		1.7.2.2.2.3.1 Generate schematic symbols	BCWS	0	0	0	0
		1.7.2.2.2.3.2 Enter schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.3 Review schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.5 Enter schematic - Part 2	BCWS	0	0	0	0
		1.7.2.2.2.4.1 Design FPGA firmware	BCWS	0	0	0	0
		1.7.2.2.2.4.2 Design embedded software	BCWS	0	0	0	0
		1.7.2.2.2.4.3 Design FPGA firmware - Part 2	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		OCT09	NOV09	DEC09	JAN10
		1.7.1.8.3.5 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.8.4.1 Develop beam signal trigger	BCWS	0	0	0	0
		1.7.1.8.4.2 Integrate error handling and monitoring support in the glo	BCWS	0	0	0	0
		1.7.1.8.4.3 Integrate run control support in the global trigger server	BCWS	0	0	0	0
		1.7.1.8.4.4 Update global trigger system test and verification suite f	BCWS	0	0	0	0
		1.7.1.8.4.5 Update global trigger system user documentation for softwa	BCWS	0	0	0	0
		1.7.1.8.4.6 Perform global trigger system tests and verification for s	BCWS	0	0	0	0
		1.7.1.8.4.7 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.9.1.1 DAQ monitor system requirements document draft	BCWS	0	0	0	0
		1.7.1.9.1.2 Review DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.1.3 Finalize DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.2.1 DAQ monitor system design document draft	BCWS	0	0	0	0
		1.7.1.9.2.2 Review DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.2.3 Finalize DAQ monitor system design document	BCWS	3,559	0	0	0
		1.7.1.9.3.1 Find candidates for DAQ monitor software and development l	BCWS	3,559	6,148	1,618	0
		1.7.1.9.3.2 Evaluate DAQ monitor software and development languages	BCWS	0	0	4,719	944
		1.7.1.9.3.3 Review DAQ monitor software and development languages eval	BCWS	0	0	0	4,530
		1.7.2.1.5.1.1 Prepare specifications document	BCWS	0	0	0	0
		1.7.2.1.5.2.1 Schematic entry	BCWS	0	0	0	0
		1.7.2.1.5.2.2 Schematic entry - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.3 Board design	BCWS	0	0	0	0
		1.7.2.1.5.4 Simulation	BCWS	0	0	0	0
		1.7.2.1.5.5 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.6 Simulation - Part 2	BCWS	0	0	0	0
		1.7.2.1.6.1.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.1.6.1.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.1.6.1.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.1.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.3 Assemble IPND data concentrators	BCWS	0	0	0	0
		1.7.2.1.7.1 Perform standalone boards tests	BCWS	0	0	0	0
		1.7.2.1.7.2 Perform interface tests	BCWS	0	0	0	0
		1.7.2.2.2.3.1 Generate schematic symbols	BCWS	0	0	0	0
		1.7.2.2.2.3.2 Enter schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.3 Review schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.5 Enter schematic - Part 2	BCWS	0	0	0	0
		1.7.2.2.2.4.1 Design FPGA firmware	BCWS	0	0	0	0
		1.7.2.2.2.4.2 Design embedded software	BCWS	0	0	0	0
		1.7.2.2.2.4.3 Design FPGA firmware - Part 2	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB10	MAR10	APR10	MAY10
		1.7.1.8.3.5 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.8.4.1 Develop beam signal trigger	BCWS	0	0	0	0
		1.7.1.8.4.2 Integrate error handling and monitoring support in the glo	BCWS	0	0	0	0
		1.7.1.8.4.3 Integrate run control support in the global trigger server	BCWS	0	0	0	0
		1.7.1.8.4.4 Update global trigger system test and verification suite f	BCWS	0	0	0	0
		1.7.1.8.4.5 Update global trigger system user documentation for softwa	BCWS	0	0	0	0
		1.7.1.8.4.6 Perform global trigger system tests and verification for s	BCWS	0	0	0	0
		1.7.1.8.4.7 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.9.1.1 DAQ monitor system requirements document draft	BCWS	0	0	0	0
		1.7.1.9.1.2 Review DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.1.3 Finalize DAQ monitor requirements document	BCWS	0	0	0	0
		1.7.1.9.2.1 DAQ monitor system design document draft	BCWS	0	0	0	0
		1.7.1.9.2.2 Review DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.2.3 Finalize DAQ monitor system design document	BCWS	0	0	0	0
		1.7.1.9.3.1 Find candidates for DAQ monitor software and development l	BCWS	0	0	0	0
		1.7.1.9.3.2 Evaluate DAQ monitor software and development languages	BCWS	0	0	0	0
		1.7.1.9.3.3 Review DAQ monitor software and development languages eval	BCWS	0	0	0	0
		1.7.2.1.5.1.1 Prepare specifications document	BCWS	0	0	0	0
		1.7.2.1.5.2.1 Schematic entry	BCWS	0	0	0	0
		1.7.2.1.5.2.2 Schematic entry - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.3 Board design	BCWS	0	0	0	0
		1.7.2.1.5.4 Simulation	BCWS	0	0	0	0
		1.7.2.1.5.5 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.1.5.6 Simulation - Part 2	BCWS	0	0	0	0
		1.7.2.1.6.1.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.1.6.1.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.1.6.1.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.1.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.1.6.3 Assemble IPND data concentrators	BCWS	0	0	0	0
		1.7.2.1.7.1 Perform standalone boards tests	BCWS	0	0	0	0
		1.7.2.1.7.2 Perform interface tests	BCWS	0	0	0	0
		1.7.2.2.2.3.1 Generate schematic symbols	BCWS	0	0	0	0
		1.7.2.2.2.3.2 Enter schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.3 Review schematic	BCWS	0	0	0	0
		1.7.2.2.2.3.5 Enter schematic - Part 2	BCWS	0	0	0	0
		1.7.2.2.2.4.1 Design FPGA firmware	BCWS	0	0	0	0
		1.7.2.2.2.4.2 Design embedded software	BCWS	0	0	0	0
		1.7.2.2.2.4.3 Design FPGA firmware - Part 2	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		JUN10	JUL10	AUG10	Cumulative
		1.7.1.8.3.5 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.8.4.1 Develop beam signal trigger	BCWS	0	0	0	0
		1.7.1.8.4.2 Integrate error handling and monitoring support in the glo	BCWS	0	0	0	0
		1.7.1.8.4.3 Integrate run control support in the global trigger server	BCWS	0	0	0	0
		1.7.1.8.4.4 Update global trigger system test and verification suite f	BCWS	0	0	0	0
		1.7.1.8.4.5 Update global trigger system user documentation for softwa	BCWS	0	0	0	0
		1.7.1.8.4.6 Perform global trigger system tests and verification for s	BCWS	0	0	0	0
		1.7.1.8.4.7 Review global trigger system, tests and documentation for	BCWS	0	0	0	0
		1.7.1.9.1.1 DAQ monitor system requirements document draft	BCWS	0	0	0	10,806
		1.7.1.9.1.2 Review DAQ monitor requirements document	BCWS	0	0	0	4,323
		1.7.1.9.1.3 Finalize DAQ monitor requirements document	BCWS	0	0	0	4,323
		1.7.1.9.2.1 DAQ monitor system design document draft	BCWS	0	0	0	21,613
		1.7.1.9.2.2 Review DAQ monitor system design document	BCWS	0	0	0	4,323
		1.7.1.9.2.3 Finalize DAQ monitor system design document	BCWS	0	0	0	4,486
		1.7.1.9.3.1 Find candidates for DAQ monitor software and development l	BCWS	0	0	0	11,325
		1.7.1.9.3.2 Evaluate DAQ monitor software and development languages	BCWS	0	0	0	5,662
		1.7.1.9.3.3 Review DAQ monitor software and development languages eval	BCWS	0	0	0	4,530
		1.7.2.1.5.1.1 Prepare specifications document	BCWS	0	0	0	4,762
		1.7.2.1.5.2.1 Schematic entry	BCWS	0	0	0	8,983
		1.7.2.1.5.2.2 Schematic entry - Part 2	BCWS	0	0	0	1,046
		1.7.2.1.5.3 Board design	BCWS	0	0	0	7,543
		1.7.2.1.5.4 Simulation	BCWS	0	0	0	13,475
		1.7.2.1.5.5 Board design - Part 2	BCWS	0	0	0	878
		1.7.2.1.5.6 Simulation - Part 2	BCWS	0	0	0	1,569
		1.7.2.1.6.1.1 Write purchase requests	BCWS	0	0	0	2,092
		1.7.2.1.6.1.2 Obtain project approvals	BCWS	0	0	0	1,046
		1.7.2.1.6.1.3 Write purchase orders	BCWS	0	0	0	2,092
		1.7.2.1.6.1.4 Place purchase orders	BCWS	0	0	0	18,554
		1.7.2.1.6.3 Assemble IPND data concentrators	BCWS	0	0	0	26,350
		1.7.2.1.7.1 Perform standalone boards tests	BCWS	0	0	0	47,271
		1.7.2.1.7.2 Perform interface tests	BCWS	0	0	0	19,244
		1.7.2.2.2.3.1 Generate schematic symbols	BCWS	0	0	0	3,999
		1.7.2.2.2.3.2 Enter schematic	BCWS	0	0	0	26,950
		1.7.2.2.2.3.3 Review schematic	BCWS	0	0	0	2,092
		1.7.2.2.2.3.5 Enter schematic - Part 2	BCWS	0	0	0	3,138
		1.7.2.2.2.4.1 Design FPGA firmware	BCWS	0	0	0	22,458
		1.7.2.2.2.4.2 Design embedded software	BCWS	0	0	0	16,209
		1.7.2.2.2.4.3 Design FPGA firmware - Part 2	BCWS	0	0	0	7,845

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		MAY07	JUN07	JUL07	AUG07
		1.7.2.2.2.5 Board design	BCWS	0	0	0	0
		1.7.2.2.2.6 Packaging design	BCWS	0	0	0	0
		1.7.2.2.2.7 Simulation	BCWS	0	0	0	0
		1.7.2.2.2.8 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.2.3.1 Prepare PCB manufacturing requirements document	BCWS	0	0	0	0
		1.7.2.2.3.2 Review PCB manufacturing	BCWS	0	0	0	0
		1.7.2.2.3.4.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.2.3.4.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.2.3.4.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.4.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.6 Assemble prototypes	BCWS	0	0	0	0
		1.7.2.2.4.1 Write test procedures document	BCWS	0	0	0	0
		1.7.2.2.4.2 Perform standalone board tests	BCWS	0	0	0	0
		1.7.2.2.4.3 Perform interface tests	BCWS	0	0	0	0
		1.7.2.3.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.3.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.3.2 Order network test equipment	BCWS	0	0	0	0
		1.7.2.3.3 Order evaluation network equipment	BCWS	0	0	0	0
		1.7.2.4.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.4.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.4.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.4.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.5.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.5.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.5.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.5.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.6.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.6.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.6.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.6.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.7.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.7.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.7.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.7.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.8.1 Procure database computers	BCWS	1,585	1,297	0	0
		1.7.3.1 Install and test integration test facility (ITF)	BCWS	0	0	0	0
		1.7.3.2.1 Write performance requirements and benchmark tests document	BCWS	0	0	0	0
		1.7.3.2.2 Write benchmark tests	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		SEP07	OCT07	NOV07	DEC07
		1.7.2.2.2.5 Board design	BCWS	0	0	8,082	14,547
		1.7.2.2.2.6 Packaging design	BCWS	0	0	0	0
		1.7.2.2.2.7 Simulation	BCWS	0	0	0	0
		1.7.2.2.2.8 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.2.3.1 Prepare PCB manufacturing requirements document	BCWS	0	0	0	0
		1.7.2.2.3.2 Review PCB manufacturing	BCWS	0	0	0	0
		1.7.2.2.3.4.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.2.3.4.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.2.3.4.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.4.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.6 Assemble prototypes	BCWS	0	0	0	0
		1.7.2.2.4.1 Write test procedures document	BCWS	0	0	0	0
		1.7.2.2.4.2 Perform standalone board tests	BCWS	0	0	0	0
		1.7.2.2.4.3 Perform interface tests	BCWS	0	0	0	0
		1.7.2.3.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.3.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.3.2 Order network test equipment	BCWS	0	0	0	0
		1.7.2.3.3 Order evaluation network equipment	BCWS	0	0	0	0
		1.7.2.4.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.4.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.4.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.4.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.5.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.5.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.5.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.5.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.6.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.6.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.6.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.6.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.7.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.7.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.7.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.7.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.8.1 Procure database computers	BCWS	0	0	0	0
		1.7.3.1 Install and test integration test facility (ITF)	BCWS	0	0	0	0
		1.7.3.2.1 Write performance requirements and benchmark tests document	BCWS	0	0	0	0
		1.7.3.2.2 Write benchmark tests	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB09	MAR09	APR09	MAY09
		1.7.2.2.2.5 Board design	BCWS	0	0	0	0
		1.7.2.2.2.6 Packaging design	BCWS	7,319	1,464	0	0
		1.7.2.2.2.7 Simulation	BCWS	9,510	11,412	0	0
		1.7.2.2.2.8 Board design - Part 2	BCWS	2,635	0	0	0
		1.7.2.2.3.1 Prepare PCB manufacturing requirements document	BCWS	3,074	1,317	0	0
		1.7.2.2.3.2 Review PCB manufacturing	BCWS	0	1,046	0	0
		1.7.2.2.3.4.1 Write purchase requests	BCWS	0	2,092	0	0
		1.7.2.2.3.4.2 Obtain project approvals	BCWS	0	941	105	0
		1.7.2.2.3.4.3 Write purchase orders	BCWS	0	0	2,092	0
		1.7.2.2.3.4.4 Place purchase orders	BCWS	0	0	16,428	4,107
		1.7.2.2.3.6 Assemble prototypes	BCWS	0	0	0	3,952
		1.7.2.2.4.1 Write test procedures document	BCWS	0	14,852	0	0
		1.7.2.2.4.2 Perform standalone board tests	BCWS	0	0	0	0
		1.7.2.2.4.3 Perform interface tests	BCWS	0	0	0	0
		1.7.2.3.1.1 Prepare requirements document	BCWS	10,461	0	0	0
		1.7.2.3.1.2 Review requirements	BCWS	385	1,540	0	0
		1.7.2.3.2 Order network test equipment	BCWS	0	32,035	0	0
		1.7.2.3.3 Order evaluation network equipment	BCWS	0	12,134	0	0
		1.7.2.4.1.1 Prepare requirements document	BCWS	0	0	0	19,244
		1.7.2.4.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.4.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.4.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.5.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.5.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.5.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.5.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.6.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.6.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.6.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.6.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.7.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.7.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.7.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.7.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.8.1 Procure database computers	BCWS	0	0	0	0
		1.7.3.1 Install and test integration test facility (ITF)	BCWS	0	23,231	34,846	0
		1.7.3.2.1 Write performance requirements and benchmark tests document	BCWS	0	0	0	0
		1.7.3.2.2 Write benchmark tests	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		JUN09	JUL09	AUG09	SEP09
		1.7.2.2.2.5 Board design	BCWS	0	0	0	0
		1.7.2.2.2.6 Packaging design	BCWS	0	0	0	0
		1.7.2.2.2.7 Simulation	BCWS	0	0	0	0
		1.7.2.2.2.8 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.2.3.1 Prepare PCB manufacturing requirements document	BCWS	0	0	0	0
		1.7.2.2.3.2 Review PCB manufacturing	BCWS	0	0	0	0
		1.7.2.2.3.4.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.2.3.4.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.2.3.4.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.4.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.6 Assemble prototypes	BCWS	9,222	0	0	0
		1.7.2.2.4.1 Write test procedures document	BCWS	0	0	0	0
		1.7.2.2.4.2 Perform standalone board tests	BCWS	9,092	25,004	0	0
		1.7.2.2.4.3 Perform interface tests	BCWS	0	0	19,244	0
		1.7.2.3.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.3.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.3.2 Order network test equipment	BCWS	0	0	0	0
		1.7.2.3.3 Order evaluation network equipment	BCWS	0	0	0	0
		1.7.2.4.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.4.1.2 Review requirements	BCWS	1,924	0	0	0
		1.7.2.4.2 Order evaluation components	BCWS	17,845	0	0	0
		1.7.2.4.4 Test evaluation components	BCWS	0	18,282	20,206	0
		1.7.2.5.1.1 Prepare requirements document	BCWS	0	0	0	10,461
		1.7.2.5.1.2 Review requirements	BCWS	0	0	0	385
		1.7.2.5.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.5.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.6.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.6.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.6.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.6.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.7.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.7.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.7.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.7.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.8.1 Procure database computers	BCWS	0	0	0	0
		1.7.3.1 Install and test integration test facility (ITF)	BCWS	0	0	0	0
		1.7.3.2.1 Write performance requirements and benchmark tests document	BCWS	0	0	0	0
		1.7.3.2.2 Write benchmark tests	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		OCT09	NOV09	DEC09	JAN10
		1.7.2.2.2.5 Board design	BCWS	0	0	0	0
		1.7.2.2.2.6 Packaging design	BCWS	0	0	0	0
		1.7.2.2.2.7 Simulation	BCWS	0	0	0	0
		1.7.2.2.2.8 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.2.3.1 Prepare PCB manufacturing requirements document	BCWS	0	0	0	0
		1.7.2.2.3.2 Review PCB manufacturing	BCWS	0	0	0	0
		1.7.2.2.3.4.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.2.3.4.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.2.3.4.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.4.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.6 Assemble prototypes	BCWS	0	0	0	0
		1.7.2.2.4.1 Write test procedures document	BCWS	0	0	0	0
		1.7.2.2.4.2 Perform standalone board tests	BCWS	0	0	0	0
		1.7.2.2.4.3 Perform interface tests	BCWS	0	0	0	0
		1.7.2.3.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.3.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.3.2 Order network test equipment	BCWS	0	0	0	0
		1.7.2.3.3 Order evaluation network equipment	BCWS	0	0	0	0
		1.7.2.4.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.4.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.4.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.4.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.5.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.5.1.2 Review requirements	BCWS	1,613	0	0	0
		1.7.2.5.2 Order evaluation components	BCWS	35,856	0	0	0
		1.7.2.5.4 Test evaluation components	BCWS	0	17,142	3,025	0
		1.7.2.6.1.1 Prepare requirements document	BCWS	0	0	9,318	1,644
		1.7.2.6.1.2 Review requirements	BCWS	0	0	0	2,017
		1.7.2.6.2 Order evaluation components	BCWS	0	0	0	11,760
		1.7.2.6.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.7.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.7.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.7.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.7.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.8.1 Procure database computers	BCWS	0	0	0	0
		1.7.3.1 Install and test integration test facility (ITF)	BCWS	0	0	0	0
		1.7.3.2.1 Write performance requirements and benchmark tests document	BCWS	10,192	1,132	0	0
		1.7.3.2.2 Write benchmark tests	BCWS	0	0	9,626	10,758

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB10	MAR10	APR10	MAY10
		1.7.2.2.2.5 Board design	BCWS	0	0	0	0
		1.7.2.2.2.6 Packaging design	BCWS	0	0	0	0
		1.7.2.2.2.7 Simulation	BCWS	0	0	0	0
		1.7.2.2.2.8 Board design - Part 2	BCWS	0	0	0	0
		1.7.2.2.3.1 Prepare PCB manufacturing requirements document	BCWS	0	0	0	0
		1.7.2.2.3.2 Review PCB manufacturing	BCWS	0	0	0	0
		1.7.2.2.3.4.1 Write purchase requests	BCWS	0	0	0	0
		1.7.2.2.3.4.2 Obtain project approvals	BCWS	0	0	0	0
		1.7.2.2.3.4.3 Write purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.4.4 Place purchase orders	BCWS	0	0	0	0
		1.7.2.2.3.6 Assemble prototypes	BCWS	0	0	0	0
		1.7.2.2.4.1 Write test procedures document	BCWS	0	0	0	0
		1.7.2.2.4.2 Perform standalone board tests	BCWS	0	0	0	0
		1.7.2.2.4.3 Perform interface tests	BCWS	0	0	0	0
		1.7.2.3.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.3.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.3.2 Order network test equipment	BCWS	0	0	0	0
		1.7.2.3.3 Order evaluation network equipment	BCWS	0	0	0	0
		1.7.2.4.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.4.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.4.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.4.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.5.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.5.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.5.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.5.4 Test evaluation components	BCWS	0	0	0	0
		1.7.2.6.1.1 Prepare requirements document	BCWS	0	0	0	0
		1.7.2.6.1.2 Review requirements	BCWS	0	0	0	0
		1.7.2.6.2 Order evaluation components	BCWS	0	0	0	0
		1.7.2.6.4 Test evaluation components	BCWS	11,092	9,075	0	0
		1.7.2.7.1.1 Prepare requirements document	BCWS	0	3,289	0	0
		1.7.2.7.1.2 Review requirements	BCWS	0	1,096	0	0
		1.7.2.7.2 Order evaluation components	BCWS	0	2,557	3,835	0
		1.7.2.7.4 Test evaluation components	BCWS	0	0	2,761	0
		1.7.2.8.1 Procure database computers	BCWS	0	0	0	0
		1.7.3.1 Install and test integration test facility (ITF)	BCWS	0	0	0	0
		1.7.3.2.1 Write performance requirements and benchmark tests document	BCWS	0	0	0	0
		1.7.3.2.2 Write benchmark tests	BCWS	2,265	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		JUN10	JUL10	AUG10	Cumulative
		1.7.2.2.2.5 Board design	BCWS	0	0	0	22,629
		1.7.2.2.2.6 Packaging design	BCWS	0	0	0	8,783
		1.7.2.2.2.7 Simulation	BCWS	0	0	0	20,921
		1.7.2.2.2.8 Board design - Part 2	BCWS	0	0	0	2,635
		1.7.2.2.3.1 Prepare PCB manufacturing requirements document	BCWS	0	0	0	4,392
		1.7.2.2.3.2 Review PCB manufacturing	BCWS	0	0	0	1,046
		1.7.2.2.3.4.1 Write purchase requests	BCWS	0	0	0	2,092
		1.7.2.2.3.4.2 Obtain project approvals	BCWS	0	0	0	1,046
		1.7.2.2.3.4.3 Write purchase orders	BCWS	0	0	0	2,092
		1.7.2.2.3.4.4 Place purchase orders	BCWS	0	0	0	20,535
		1.7.2.2.3.6 Assemble prototypes	BCWS	0	0	0	13,175
		1.7.2.2.4.1 Write test procedures document	BCWS	0	0	0	14,852
		1.7.2.2.4.2 Perform standalone board tests	BCWS	0	0	0	34,096
		1.7.2.2.4.3 Perform interface tests	BCWS	0	0	0	19,244
		1.7.2.3.1.1 Prepare requirements document	BCWS	0	0	0	10,461
		1.7.2.3.1.2 Review requirements	BCWS	0	0	0	1,924
		1.7.2.3.2 Order network test equipment	BCWS	0	0	0	32,035
		1.7.2.3.3 Order evaluation network equipment	BCWS	0	0	0	12,134
		1.7.2.4.1.1 Prepare requirements document	BCWS	0	0	0	19,244
		1.7.2.4.1.2 Review requirements	BCWS	0	0	0	1,924
		1.7.2.4.2 Order evaluation components	BCWS	0	0	0	17,845
		1.7.2.4.4 Test evaluation components	BCWS	0	0	0	38,488
		1.7.2.5.1.1 Prepare requirements document	BCWS	0	0	0	10,461
		1.7.2.5.1.2 Review requirements	BCWS	0	0	0	1,998
		1.7.2.5.2 Order evaluation components	BCWS	0	0	0	35,856
		1.7.2.5.4 Test evaluation components	BCWS	0	0	0	20,167
		1.7.2.6.1.1 Prepare requirements document	BCWS	0	0	0	10,963
		1.7.2.6.1.2 Review requirements	BCWS	0	0	0	2,017
		1.7.2.6.2 Order evaluation components	BCWS	0	0	0	11,760
		1.7.2.6.4 Test evaluation components	BCWS	0	0	0	20,167
		1.7.2.7.1.1 Prepare requirements document	BCWS	0	0	0	3,289
		1.7.2.7.1.2 Review requirements	BCWS	0	0	0	1,096
		1.7.2.7.2 Order evaluation components	BCWS	0	0	0	6,392
		1.7.2.7.4 Test evaluation components	BCWS	0	0	0	2,761
		1.7.2.8.1 Procure database computers	BCWS	0	0	0	2,882
		1.7.3.1 Install and test integration test facility (ITF)	BCWS	0	0	0	58,077
		1.7.3.2.1 Write performance requirements and benchmark tests document	BCWS	0	0	0	11,325
		1.7.3.2.2 Write benchmark tests	BCWS	0	0	0	22,649

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		MAY07	JUN07	JUL07	AUG07
		1.7.3.2.3 Perform benchmark tests	BCWS	0	0	0	0
		1.7.3.3.1 Integrate data concentrators	BCWS	0	0	0	0
		1.7.3.3.2 Integrate data and control network	BCWS	0	0	0	0
		1.7.3.3.3 Integrate timing system	BCWS	0	0	0	0
		1.7.3.4.1 Integrate RCS single node	BCWS	0	0	0	0
		1.7.3.4.2 Integrate event building	BCWS	0	0	0	0
		1.7.3.4.3 Integrate trigger	BCWS	0	0	0	0
		1.7.3.5 Consultation	BCWS	0	0	0	0
		1.7.4.10 Perform security audit for detector control system	BCWS	0	0	0	0
		1.7.4.12.1 Procure detector controls counting house computing hardware	BCWS	0	0	0	0
		1.7.4.12.2 Procure detector controls readout systems and sensor packs	BCWS	0	0	0	0
		1.7.4.12.3.1 Setup and configure DCS master server	BCWS	0	0	0	0
		1.7.4.12.3.2 Setup and configure DCS readout servers	BCWS	0	0	0	0
		1.7.4.12.3.3 Setup and configure DCSNet for IPND	BCWS	0	0	0	0
		1.7.4.12.3.4 Install servers and switches in IPND electronics and cont	BCWS	0	0	0	0
		1.7.4.12.4.1 Setup water cooling monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.2 Setup power supply monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.3 Setup general environmental and detector sensors	BCWS	0	0	0	0
		1.7.4.12.4.4 Setup DCM/FEB monitors	BCWS	0	0	0	0
		1.7.4.12.5 Test DCS systems on IPND	BCWS	0	0	0	0
		1.7.4.12.6 Certify DCS for production operations	BCWS	0	0	0	0
		1.7.4.12.7 Conduct DCS production readiness review	BCWS	0	0	0	0
		1.7.4.3.6 Develop detector controls test stand	BCWS	177	206	206	226
		1.7.4.3.7 Develop detector controls test stand - Part 2	BCWS	0	0	0	0
		1.7.4.4.1 Develop channel server master (EPICs)	BCWS	0	0	0	0
		1.7.4.4.2.1 Develop DCM IOC	BCWS	0	0	0	0
		1.7.4.4.2.10 Develop LV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.11 Develop enviromental sensors IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.2 Develop FEB IOC	BCWS	0	0	0	0
		1.7.4.4.2.3 Develop HV IOC	BCWS	0	0	0	0
		1.7.4.4.2.4 Develop LV IOC	BCWS	0	0	0	0
		1.7.4.4.2.5 Develop water cooling IOC	BCWS	0	0	0	0
		1.7.4.4.2.6 Develop enviromental sensors IOC	BCWS	0	0	0	0
		1.7.4.4.2.7 Develop DCM IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.8 Develop FEB IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.9 Develop HV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.3.1 Determine load scaling	BCWS	0	0	0	0
		1.7.4.4.3.2 Develop system failure and fall over recovery	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		SEP07	OCT07	NOV07	DEC07
		1.7.3.2.3 Perform benchmark tests	BCWS	0	0	0	0
		1.7.3.3.1 Integrate data concentrators	BCWS	0	0	0	0
		1.7.3.3.2 Integrate data and control network	BCWS	0	0	0	0
		1.7.3.3.3 Integrate timing system	BCWS	0	0	0	0
		1.7.3.4.1 Integrate RCS single node	BCWS	0	0	0	0
		1.7.3.4.2 Integrate event building	BCWS	0	0	0	0
		1.7.3.4.3 Integrate trigger	BCWS	0	0	0	0
		1.7.3.5 Consultation	BCWS	0	0	0	0
		1.7.4.10 Perform security audit for detector control system	BCWS	0	0	0	0
		1.7.4.12.1 Procure detector controls counting house computing hardware	BCWS	0	0	0	0
		1.7.4.12.2 Procure detector controls readout systems and sensor packs	BCWS	0	0	0	0
		1.7.4.12.3.1 Setup and configure DCS master server	BCWS	0	0	0	0
		1.7.4.12.3.2 Setup and configure DCS readout servers	BCWS	0	0	0	0
		1.7.4.12.3.3 Setup and configure DCSNet for IPND	BCWS	0	0	0	0
		1.7.4.12.3.4 Install servers and switches in IPND electronics and cont	BCWS	0	0	0	0
		1.7.4.12.4.1 Setup water cooling monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.2 Setup power supply monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.3 Setup general environmental and detector sensors	BCWS	0	0	0	0
		1.7.4.12.4.4 Setup DCM/FEB monitors	BCWS	0	0	0	0
		1.7.4.12.5 Test DCS systems on IPND	BCWS	0	0	0	0
		1.7.4.12.6 Certify DCS for production operations	BCWS	0	0	0	0
		1.7.4.12.7 Conduct DCS production readiness review	BCWS	0	0	0	0
		1.7.4.3.6 Develop detector controls test stand	BCWS	187	231	201	181
		1.7.4.3.7 Develop detector controls test stand - Part 2	BCWS	0	0	0	0
		1.7.4.4.1 Develop channel server master (EPICs)	BCWS	0	0	0	0
		1.7.4.4.2.1 Develop DCM IOC	BCWS	0	0	0	0
		1.7.4.4.2.10 Develop LV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.11 Develop enviromental sensors IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.2 Develop FEB IOC	BCWS	0	0	0	0
		1.7.4.4.2.3 Develop HV IOC	BCWS	0	0	0	0
		1.7.4.4.2.4 Develop LV IOC	BCWS	0	0	0	0
		1.7.4.4.2.5 Develop water cooling IOC	BCWS	0	0	0	0
		1.7.4.4.2.6 Develop enviromental sensors IOC	BCWS	0	0	0	0
		1.7.4.4.2.7 Develop DCM IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.8 Develop FEB IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.9 Develop HV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.3.1 Determine load scaling	BCWS	0	0	0	0
		1.7.4.4.3.2 Develop system failure and fall over recovery	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB09	MAR09	APR09	MAY09
		1.7.3.2.3 Perform benchmark tests	BCWS	0	0	0	0
		1.7.3.3.1 Integrate data concentrators	BCWS	0	0	9,622	19,244
		1.7.3.3.2 Integrate data and control network	BCWS	0	0	0	13,947
		1.7.3.3.3 Integrate timing system	BCWS	0	0	0	0
		1.7.3.4.1 Integrate RCS single node	BCWS	0	0	7,204	14,408
		1.7.3.4.2 Integrate event building	BCWS	0	0	5,403	10,806
		1.7.3.4.3 Integrate trigger	BCWS	0	0	0	5,943
		1.7.3.5 Consultation	BCWS	0	0	0	0
		1.7.4.10 Perform security audit for detector control system	BCWS	0	0	0	0
		1.7.4.12.1 Procure detector controls counting house computing hardware	BCWS	0	0	0	0
		1.7.4.12.2 Procure detector controls readout systems and sensor packs	BCWS	0	0	0	0
		1.7.4.12.3.1 Setup and configure DCS master server	BCWS	0	0	0	0
		1.7.4.12.3.2 Setup and configure DCS readout servers	BCWS	0	0	0	0
		1.7.4.12.3.3 Setup and configure DCSNet for IPND	BCWS	0	0	0	0
		1.7.4.12.3.4 Install servers and switches in IPND electronics and cont	BCWS	0	0	0	0
		1.7.4.12.4.1 Setup water cooling monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.2 Setup power supply monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.3 Setup general environmental and detector sensors	BCWS	0	0	0	0
		1.7.4.12.4.4 Setup DCM/FEB monitors	BCWS	0	0	0	0
		1.7.4.12.5 Test DCS systems on IPND	BCWS	0	0	0	0
		1.7.4.12.6 Certify DCS for production operations	BCWS	0	0	0	0
		1.7.4.12.7 Conduct DCS production readiness review	BCWS	0	0	0	0
		1.7.4.3.6 Develop detector controls test stand	BCWS	0	0	0	0
		1.7.4.3.7 Develop detector controls test stand - Part 2	BCWS	1,670	0	0	0
		1.7.4.4.1 Develop channel server master (EPICs)	BCWS	0	0	0	0
		1.7.4.4.2.1 Develop DCM IOC	BCWS	0	0	0	0
		1.7.4.4.2.10 Develop LV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.11 Develop enviromental sensors IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.2 Develop FEB IOC	BCWS	0	0	0	0
		1.7.4.4.2.3 Develop HV IOC	BCWS	0	0	0	0
		1.7.4.4.2.4 Develop LV IOC	BCWS	0	0	0	0
		1.7.4.4.2.5 Develop water cooling IOC	BCWS	0	0	0	0
		1.7.4.4.2.6 Develop enviromental sensors IOC	BCWS	0	0	0	0
		1.7.4.4.2.7 Develop DCM IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.8 Develop FEB IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.9 Develop HV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.3.1 Determine load scaling	BCWS	0	0	0	0
		1.7.4.4.3.2 Develop system failure and fall over recovery	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		JUN09	JUL09	AUG09	SEP09
		1.7.3.2.3 Perform benchmark tests	BCWS	0	0	0	0
		1.7.3.3.1 Integrate data concentrators	BCWS	21,168	7,698	0	0
		1.7.3.3.2 Integrate data and control network	BCWS	15,342	12,553	0	0
		1.7.3.3.3 Integrate timing system	BCWS	0	0	495	10,397
		1.7.3.4.1 Integrate RCS single node	BCWS	15,849	5,763	0	0
		1.7.3.4.2 Integrate event building	BCWS	5,403	0	0	0
		1.7.3.4.3 Integrate trigger	BCWS	11,887	3,782	0	0
		1.7.3.5 Consultation	BCWS	0	0	0	0
		1.7.4.10 Perform security audit for detector control system	BCWS	3,298	0	0	0
		1.7.4.12.1 Procure detector controls counting house computing hardware	BCWS	2,040	3,740	3,570	3,570
		1.7.4.12.2 Procure detector controls readout systems and sensor packs	BCWS	1,464	2,685	2,563	2,563
		1.7.4.12.3.1 Setup and configure DCS master server	BCWS	0	0	0	0
		1.7.4.12.3.2 Setup and configure DCS readout servers	BCWS	0	0	0	0
		1.7.4.12.3.3 Setup and configure DCSNet for IPND	BCWS	0	0	0	0
		1.7.4.12.3.4 Install servers and switches in IPND electronics and cont	BCWS	0	0	0	0
		1.7.4.12.4.1 Setup water cooling monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.2 Setup power supply monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.3 Setup general environmental and detector sensors	BCWS	0	0	0	0
		1.7.4.12.4.4 Setup DCM/FEB monitors	BCWS	0	0	0	0
		1.7.4.12.5 Test DCS systems on IPND	BCWS	0	0	0	0
		1.7.4.12.6 Certify DCS for production operations	BCWS	0	0	0	0
		1.7.4.12.7 Conduct DCS production readiness review	BCWS	0	0	0	0
		1.7.4.3.6 Develop detector controls test stand	BCWS	0	0	0	0
		1.7.4.3.7 Develop detector controls test stand - Part 2	BCWS	0	0	0	0
		1.7.4.4.1 Develop channel server master (EPICs)	BCWS	0	0	0	0
		1.7.4.4.2.1 Develop DCM IOC	BCWS	0	0	0	0
		1.7.4.4.2.10 Develop LV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.11 Develop enviromental sensors IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.2 Develop FEB IOC	BCWS	0	0	0	0
		1.7.4.4.2.3 Develop HV IOC	BCWS	0	0	0	0
		1.7.4.4.2.4 Develop LV IOC	BCWS	0	0	0	0
		1.7.4.4.2.5 Develop water cooling IOC	BCWS	0	0	0	0
		1.7.4.4.2.6 Develop enviromental sensors IOC	BCWS	0	0	0	0
		1.7.4.4.2.7 Develop DCM IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.8 Develop FEB IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.9 Develop HV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.3.1 Determine load scaling	BCWS	0	0	0	0
		1.7.4.4.3.2 Develop system failure and fall over recovery	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		OCT09	NOV09	DEC09	JAN10
		1.7.3.2.3 Perform benchmark tests	BCWS	0	0	0	0
		1.7.3.3.1 Integrate data concentrators	BCWS	0	0	0	0
		1.7.3.3.2 Integrate data and control network	BCWS	0	0	0	0
		1.7.3.3.3 Integrate timing system	BCWS	11,414	8,301	0	0
		1.7.3.4.1 Integrate RCS single node	BCWS	0	0	0	0
		1.7.3.4.2 Integrate event building	BCWS	0	0	0	0
		1.7.3.4.3 Integrate trigger	BCWS	0	0	0	0
		1.7.3.5 Consultation	BCWS	0	1,911	12,737	12,100
		1.7.4.10 Perform security audit for detector control system	BCWS	0	0	0	0
		1.7.4.12.1 Procure detector controls counting house computing hardware	BCWS	2,430	0	0	0
		1.7.4.12.2 Procure detector controls readout systems and sensor packs	BCWS	1,744	0	0	0
		1.7.4.12.3.1 Setup and configure DCS master server	BCWS	0	0	0	0
		1.7.4.12.3.2 Setup and configure DCS readout servers	BCWS	0	0	0	0
		1.7.4.12.3.3 Setup and configure DCSNet for IPND	BCWS	0	0	0	0
		1.7.4.12.3.4 Install servers and switches in IPND electronics and cont	BCWS	0	0	0	0
		1.7.4.12.4.1 Setup water cooling monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.2 Setup power supply monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.3 Setup general environmental and detector sensors	BCWS	0	0	0	0
		1.7.4.12.4.4 Setup DCM/FEB monitors	BCWS	0	0	0	0
		1.7.4.12.5 Test DCS systems on IPND	BCWS	0	0	0	0
		1.7.4.12.6 Certify DCS for production operations	BCWS	0	0	0	0
		1.7.4.12.7 Conduct DCS production readiness review	BCWS	0	0	0	0
		1.7.4.3.6 Develop detector controls test stand	BCWS	0	0	0	0
		1.7.4.3.7 Develop detector controls test stand - Part 2	BCWS	0	0	0	0
		1.7.4.4.1 Develop channel server master (EPICs)	BCWS	0	0	0	0
		1.7.4.4.2.1 Develop DCM IOC	BCWS	0	0	0	0
		1.7.4.4.2.10 Develop LV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.11 Develop enviromental sensors IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.2 Develop FEB IOC	BCWS	0	0	0	0
		1.7.4.4.2.3 Develop HV IOC	BCWS	0	0	0	0
		1.7.4.4.2.4 Develop LV IOC	BCWS	0	0	0	0
		1.7.4.4.2.5 Develop water cooling IOC	BCWS	0	0	0	0
		1.7.4.4.2.6 Develop enviromental sensors IOC	BCWS	0	0	0	0
		1.7.4.4.2.7 Develop DCM IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.8 Develop FEB IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.9 Develop HV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.3.1 Determine load scaling	BCWS	0	0	0	0
		1.7.4.4.3.2 Develop system failure and fall over recovery	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		FEB10	MAR10	APR10	MAY10
		1.7.3.2.3 Perform benchmark tests	BCWS	13,590	3,397	0	0
		1.7.3.3.1 Integrate data concentrators	BCWS	0	0	0	0
		1.7.3.3.2 Integrate data and control network	BCWS	0	0	0	0
		1.7.3.3.3 Integrate timing system	BCWS	0	0	0	0
		1.7.3.4.1 Integrate RCS single node	BCWS	0	0	0	0
		1.7.3.4.2 Integrate event building	BCWS	0	0	0	0
		1.7.3.4.3 Integrate trigger	BCWS	0	0	0	0
		1.7.3.5 Consultation	BCWS	12,737	14,648	14,011	12,737
		1.7.4.10 Perform security audit for detector control system	BCWS	0	0	0	0
		1.7.4.12.1 Procure detector controls counting house computing hardware	BCWS	0	0	0	0
		1.7.4.12.2 Procure detector controls readout systems and sensor packs	BCWS	0	0	0	0
		1.7.4.12.3.1 Setup and configure DCS master server	BCWS	0	0	0	0
		1.7.4.12.3.2 Setup and configure DCS readout servers	BCWS	0	0	0	0
		1.7.4.12.3.3 Setup and configure DCSNet for IPND	BCWS	0	0	0	0
		1.7.4.12.3.4 Install servers and switches in IPND electronics and cont	BCWS	0	0	0	0
		1.7.4.12.4.1 Setup water cooling monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.2 Setup power supply monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.3 Setup general environmental and detector sensors	BCWS	0	0	0	0
		1.7.4.12.4.4 Setup DCM/FEB monitors	BCWS	0	0	0	0
		1.7.4.12.5 Test DCS systems on IPND	BCWS	0	0	0	0
		1.7.4.12.6 Certify DCS for production operations	BCWS	0	0	0	0
		1.7.4.12.7 Conduct DCS production readiness review	BCWS	0	0	0	0
		1.7.4.3.6 Develop detector controls test stand	BCWS	0	0	0	0
		1.7.4.3.7 Develop detector controls test stand - Part 2	BCWS	0	0	0	0
		1.7.4.4.1 Develop channel server master (EPICs)	BCWS	0	0	0	0
		1.7.4.4.2.1 Develop DCM IOC	BCWS	0	0	0	0
		1.7.4.4.2.10 Develop LV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.11 Develop enviromental sensors IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.2 Develop FEB IOC	BCWS	0	0	0	0
		1.7.4.4.2.3 Develop HV IOC	BCWS	0	0	0	0
		1.7.4.4.2.4 Develop LV IOC	BCWS	0	0	0	0
		1.7.4.4.2.5 Develop water cooling IOC	BCWS	0	0	0	0
		1.7.4.4.2.6 Develop enviromental sensors IOC	BCWS	0	0	0	0
		1.7.4.4.2.7 Develop DCM IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.8 Develop FEB IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.9 Develop HV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.3.1 Determine load scaling	BCWS	0	0	0	0
		1.7.4.4.3.2 Develop system failure and fall over recovery	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	CT	WP		JUN10	JUL10	AUG10	Cumulative
		1.7.3.2.3 Perform benchmark tests	BCWS	0	0	0	16,987
		1.7.3.3.1 Integrate data concentrators	BCWS	0	0	0	57,731
		1.7.3.3.2 Integrate data and control network	BCWS	0	0	0	41,842
		1.7.3.3.3 Integrate timing system	BCWS	0	0	0	30,607
		1.7.3.4.1 Integrate RCS single node	BCWS	0	0	0	43,225
		1.7.3.4.2 Integrate event building	BCWS	0	0	0	21,612
		1.7.3.4.3 Integrate trigger	BCWS	0	0	0	21,612
		1.7.3.5 Consultation	BCWS	14,011	13,374	12,737	121,003
		1.7.4.10 Perform security audit for detector control system	BCWS	0	0	0	3,298
		1.7.4.12.1 Procure detector controls counting house computing hardware	BCWS	0	0	0	15,351
		1.7.4.12.2 Procure detector controls readout systems and sensor packs	BCWS	0	0	0	11,019
		1.7.4.12.3.1 Setup and configure DCS master server	BCWS	0	0	0	0
		1.7.4.12.3.2 Setup and configure DCS readout servers	BCWS	0	0	0	0
		1.7.4.12.3.3 Setup and configure DCSNet for IPND	BCWS	0	0	0	0
		1.7.4.12.3.4 Install servers and switches in IPND electronics and cont	BCWS	0	0	0	0
		1.7.4.12.4.1 Setup water cooling monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.2 Setup power supply monitors and sensors	BCWS	0	0	0	0
		1.7.4.12.4.3 Setup general environmental and detector sensors	BCWS	0	0	0	0
		1.7.4.12.4.4 Setup DCM/FEB monitors	BCWS	0	0	0	0
		1.7.4.12.5 Test DCS systems on IPND	BCWS	0	0	0	0
		1.7.4.12.6 Certify DCS for production operations	BCWS	0	0	0	0
		1.7.4.12.7 Conduct DCS production readiness review	BCWS	0	0	0	0
		1.7.4.3.6 Develop detector controls test stand	BCWS	0	0	0	1,613
		1.7.4.3.7 Develop detector controls test stand - Part 2	BCWS	0	0	0	1,670
		1.7.4.4.1 Develop channel server master (EPICs)	BCWS	0	0	0	0
		1.7.4.4.2.1 Develop DCM IOC	BCWS	0	0	0	0
		1.7.4.4.2.10 Develop LV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.11 Develop enviromental sensors IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.2 Develop FEB IOC	BCWS	0	0	0	0
		1.7.4.4.2.3 Develop HV IOC	BCWS	0	0	0	0
		1.7.4.4.2.4 Develop LV IOC	BCWS	0	0	0	0
		1.7.4.4.2.5 Develop water cooling IOC	BCWS	0	0	0	0
		1.7.4.4.2.6 Develop enviromental sensors IOC	BCWS	0	0	0	0
		1.7.4.4.2.7 Develop DCM IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.8 Develop FEB IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.2.9 Develop HV IOC - Part 2	BCWS	0	0	0	0
		1.7.4.4.3.1 Determine load scaling	BCWS	0	0	0	0
		1.7.4.4.3.2 Develop system failure and fall over recovery	BCWS	0	0	0	0

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	*CT*	*WP*		*MAY07*	*JUN07*	*JUL07*	*AUG07*
		1.7.4.4.4.1 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.2 Develop general intergrated basic controls clients	BCWS	0	0	0	0
		1.7.4.4.4.3 Develop individual system alarm clients	BCWS	0	0	0	0
		1.7.4.4.4.4 Develop general intergrated alarms client	BCWS	0	0	0	0
		1.7.4.4.4.5 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.6 Develop general intergrated basic controls clients - Part	BCWS	0	0	0	0
		1.7.4.4.4.7 Develop individual system alarm clients - Part 2	BCWS	0	0	0	0
		1.7.4.4.4.8 Develop general intergrated alarms client - Part 2	BCWS	0	0	0	0
		1.7.4.4.5 Develop channel server master (EPICs) - Part 2	BCWS	0	0	0	0
		1.7.4.5.1 Develop detector controls monitoring GUI	BCWS	0	0	0	0
		1.7.4.5.2 Develop detector controls logging and history GUI	BCWS	0	0	0	0
		1.7.4.5.3 Develop detector controls remote inspect client (web browser	BCWS	0	0	0	0
		1.7.4.6 Develop detector control diagnostics and test suite	BCWS	0	0	0	0
		1.7.4.7.1 Write detector controls user documentation	BCWS	0	0	0	0
		1.7.4.7.2 Write system monitoring user documentation	BCWS	0	0	0	0
		1.7.4.8.1 Perform high voltage controls and monitoring verification fo	BCWS	0	0	0	0
		1.7.4.8.2 Perform low voltage controls and monitoring verification for	BCWS	0	0	0	0
		1.7.4.8.3 Perform DCM controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.4 Perform FEB controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.5 Perform water cooling system controls and monitoring verific	BCWS	0	0	0	0
		1.7.4.8.6 Perform enviromental system controls and monitoring verifica	BCWS	0	0	0	0
		1.7.4.8.7 Perform logging and database intergration verification for r	BCWS	0	0	0	0
		1.7.4.9 Review detector control system software, tests and documenta	BCWS	0	0	0	0
		1.7.5.2.2.1 Labor	BCWS	0	0	0	0
		1.7.5.3.1 Labor	BCWS	0	0	0	0
		1.7.5.3.2 Travel	BCWS	0	0	0	0
		1.7.6 Operate IPND	BCWS	0	0	0	0
	CTC[21] Totals:		BCWS	27,910	15,320	11,663	5,918
Control Acct[10] Totals:			BCWS	27,910	15,320	11,663	5,918
Grand Totals:							
			BCWS	27,910	15,320	11,663	5,918

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	*CT*	*WP*		*SEP07*	*OCT07*	*NOV07*	*DEC07*
		1.7.4.4.4.1 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.2 Develop general intergrated basic controls clients	BCWS	0	0	0	0
		1.7.4.4.4.3 Develop individual system alarm clients	BCWS	0	0	0	0
		1.7.4.4.4.4 Develop general intergrated alarms client	BCWS	0	0	0	0
		1.7.4.4.4.5 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.6 Develop general intergrated basic controls clients - Part	BCWS	0	0	0	0
		1.7.4.4.4.7 Develop individual system alarm clients - Part 2	BCWS	0	0	0	0
		1.7.4.4.4.8 Develop general intergrated alarms client - Part 2	BCWS	0	0	0	0
		1.7.4.4.5 Develop channel server master (EPICs) - Part 2	BCWS	0	0	0	0
		1.7.4.5.1 Develop detector controls monitoring GUI	BCWS	0	0	0	0
		1.7.4.5.2 Develop detector controls logging and history GUI	BCWS	0	0	0	0
		1.7.4.5.3 Develop detector controls remote inspect client (web browser	BCWS	0	0	0	0
		1.7.4.6 Develop detector control diagnostics and test suite	BCWS	0	0	0	0
		1.7.4.7.1 Write detector controls user documentation	BCWS	0	0	0	0
		1.7.4.7.2 Write system monitoring user documentation	BCWS	0	0	0	0
		1.7.4.8.1 Perform high voltage controls and monitoring verification fo	BCWS	0	0	0	0
		1.7.4.8.2 Perform low voltage controls and monitoring verification for	BCWS	0	0	0	0
		1.7.4.8.3 Perform DCM controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.4 Perform FEB controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.5 Perform water cooling system controls and monitoring verific	BCWS	0	0	0	0
		1.7.4.8.6 Perform enviromental system controls and monitoring verifica	BCWS	0	0	0	0
		1.7.4.8.7 Perform logging and database intergration verification for r	BCWS	0	0	0	0
		1.7.4.9 Review detector control system software, tests and documenta	BCWS	0	0	0	0
		1.7.5.2.2.1 Labor	BCWS	0	0	0	0
		1.7.5.3.1 Labor	BCWS	0	0	0	0
		1.7.5.3.2 Travel	BCWS	0	160	152	131
		1.7.6 Operate IPND	BCWS	0	0	0	0
	CTC[21] Totals:		BCWS	4,826	25,841	54,522	68,243
Control Acct[10] Totals:			BCWS	4,826	25,841	54,522	68,243
Grand Totals:							
			BCWS	4,826	25,841	54,522	68,243

Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*FEB09*	*MAR09*	*APR09*	*MAY09*
		1.7.4.4.4.1 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.2 Develop general intergrated basic controls clients	BCWS	0	0	0	0
		1.7.4.4.4.3 Develop individual system alarm clients	BCWS	0	0	0	0
		1.7.4.4.4.4 Develop general intergrated alarms client	BCWS	0	0	0	0
		1.7.4.4.4.5 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.6 Develop general intergrated basic controls clients - Part	BCWS	0	0	0	0
		1.7.4.4.4.7 Develop individual system alarm clients - Part 2	BCWS	0	0	0	0
		1.7.4.4.4.8 Develop general intergrated alarms client - Part 2	BCWS	0	0	0	0
		1.7.4.4.5 Develop channel server master (EPICs) - Part 2	BCWS	0	0	0	0
		1.7.4.5.1 Develop detector controls monitoring GUI	BCWS	0	0	0	0
		1.7.4.5.2 Develop detector controls logging and history GUI	BCWS	0	0	0	0
		1.7.4.5.3 Develop detector controls remote inspect client (web browser	BCWS	0	0	0	0
		1.7.4.6 Develop detector control diagnostics and test suite	BCWS	0	0	0	0
		1.7.4.7.1 Write detector controls user documentation	BCWS	0	0	0	0
		1.7.4.7.2 Write system monitoring user documentation	BCWS	0	0	0	0
		1.7.4.8.1 Perform high voltage controls and monitoring verification fo	BCWS	0	0	0	0
		1.7.4.8.2 Perform low voltage controls and monitoring verification for	BCWS	0	0	0	0
		1.7.4.8.3 Perform DCM controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.4 Perform FEB controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.5 Perform water cooling system controls and monitoring verific	BCWS	0	0	0	0
		1.7.4.8.6 Perform enviromental system controls and monitoring verifica	BCWS	0	0	0	0
		1.7.4.8.7 Perform logging and database intergration verification for r	BCWS	0	0	0	0
		1.7.4.9 Review detector control system software, tests and documenta	BCWS	0	0	0	0
		1.7.5.2.2.1 Labor	BCWS	0	0	0	0
		1.7.5.3.1 Labor	BCWS	0	0	0	0
		1.7.5.3.2 Travel	BCWS	0	0	0	0
		1.7.6 Operate IPND	BCWS	0	0	0	0
	CTC[21] Totals:		BCWS	125,175	127,939	88,485	122,486
Control Acct[10] Totals:			BCWS	125,175	127,939	88,485	122,486
Grand Totals:							
			BCWS	125,175	127,939	88,485	122,486

Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*JUN09*	*JUL09*	*AUG09*	*SEP09*
		1.7.4.4.4.1 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.2 Develop general intergrated basic controls clients	BCWS	0	0	0	0
		1.7.4.4.4.3 Develop individual system alarm clients	BCWS	0	0	0	0
		1.7.4.4.4.4 Develop general intergrated alarms client	BCWS	0	0	0	0
		1.7.4.4.4.5 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.6 Develop general intergrated basic controls clients - Part	BCWS	0	0	0	0
		1.7.4.4.4.7 Develop individual system alarm clients - Part 2	BCWS	0	0	0	0
		1.7.4.4.4.8 Develop general intergrated alarms client - Part 2	BCWS	0	0	0	0
		1.7.4.4.5 Develop channel server master (EPICs) - Part 2	BCWS	0	0	0	0
		1.7.4.5.1 Develop detector controls monitoring GUI	BCWS	0	0	0	0
		1.7.4.5.2 Develop detector controls logging and history GUI	BCWS	0	0	0	0
		1.7.4.5.3 Develop detector controls remote inspect client (web browser	BCWS	0	0	0	0
		1.7.4.6 Develop detector control diagnostics and test suite	BCWS	0	0	0	0
		1.7.4.7.1 Write detector controls user documentation	BCWS	0	0	0	0
		1.7.4.7.2 Write system monitoring user documentation	BCWS	0	0	0	0
		1.7.4.8.1 Perform high voltage controls and monitoring verification fo	BCWS	0	0	0	0
		1.7.4.8.2 Perform low voltage controls and monitoring verification for	BCWS	0	0	0	0
		1.7.4.8.3 Perform DCM controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.4 Perform FEB controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.5 Perform water cooling system controls and monitoring verific	BCWS	0	0	0	0
		1.7.4.8.6 Perform enviromental system controls and monitoring verifica	BCWS	0	0	0	0
		1.7.4.8.7 Perform logging and database intergration verification for r	BCWS	0	0	0	0
		1.7.4.9 Review detector control system software, tests and documenta	BCWS	0	0	0	0
		1.7.5.2.2.1 Labor	BCWS	0	0	0	0
		1.7.5.3.1 Labor	BCWS	0	0	0	0
		1.7.5.3.2 Travel	BCWS	0	0	0	0
		1.7.6 Operate IPND	BCWS	0	0	0	0
	CTC[21] Totals:		BCWS	152,363	117,283	66,032	33,859
Control Acct[10] Totals:			BCWS	152,363	117,283	66,032	33,859
Grand Totals:							
			BCWS	152,363	117,283	66,032	33,859

Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*OCT09*	*NOV09*	*DEC09*	*JAN10*
		1.7.4.4.4.1 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.2 Develop general intergrated basic controls clients	BCWS	0	0	0	0
		1.7.4.4.4.3 Develop individual system alarm clients	BCWS	0	0	0	0
		1.7.4.4.4.4 Develop general intergrated alarms client	BCWS	0	0	0	0
		1.7.4.4.4.5 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.6 Develop general intergrated basic controls clients - Part	BCWS	0	0	0	0
		1.7.4.4.4.7 Develop individual system alarm clients - Part 2	BCWS	0	0	0	0
		1.7.4.4.4.8 Develop general intergrated alarms client - Part 2	BCWS	0	0	0	0
		1.7.4.4.5 Develop channel server master (EPICs) - Part 2	BCWS	0	0	0	0
		1.7.4.5.1 Develop detector controls monitoring GUI	BCWS	0	0	0	0
		1.7.4.5.2 Develop detector controls logging and history GUI	BCWS	0	0	0	0
		1.7.4.5.3 Develop detector controls remote inspect client (web browser	BCWS	0	0	0	0
		1.7.4.6 Develop detector control diagnostics and test suite	BCWS	0	0	0	0
		1.7.4.7.1 Write detector controls user documentation	BCWS	0	0	0	0
		1.7.4.7.2 Write system monitoring user documentation	BCWS	0	0	0	0
		1.7.4.8.1 Perform high voltage controls and monitoring verification fo	BCWS	0	0	0	0
		1.7.4.8.2 Perform low voltage controls and monitoring verification for	BCWS	0	0	0	0
		1.7.4.8.3 Perform DCM controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.4 Perform FEB controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.5 Perform water cooling system controls and monitoring verific	BCWS	0	0	0	0
		1.7.4.8.6 Perform enviromental system controls and monitoring verifica	BCWS	0	0	0	0
		1.7.4.8.7 Perform logging and database intergration verification for r	BCWS	0	0	0	0
		1.7.4.9 Review detector control system software, tests and documenta	BCWS	0	0	0	0
		1.7.5.2.2.1 Labor	BCWS	0	0	0	0
		1.7.5.3.1 Labor	BCWS	0	0	0	0
		1.7.5.3.2 Travel	BCWS	0	0	0	0
		1.7.6 Operate IPND	BCWS	0	0	0	0
	CTC[21] Totals:		BCWS	70,369	34,634	41,043	43,754
Control Acct[10] Totals:			BCWS	70,369	34,634	41,043	43,754
Grand Totals:							
			BCWS	70,369	34,634	41,043	43,754

Program:	Description:
NOVA	NOvA Project
Run Date:	Status Date:
4/3/2009	3/31/2009

Control Ac	*CT*	*WP*		*FEB10*	*MAR10*	*APR10*	*MAY10*
		1.7.4.4.4.1 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.2 Develop general intergrated basic controls clients	BCWS	0	0	0	0
		1.7.4.4.4.3 Develop individual system alarm clients	BCWS	0	0	0	0
		1.7.4.4.4.4 Develop general intergrated alarms client	BCWS	0	0	0	0
		1.7.4.4.4.5 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.6 Develop general intergrated basic controls clients - Part	BCWS	0	0	0	0
		1.7.4.4.4.7 Develop individual system alarm clients - Part 2	BCWS	0	0	0	0
		1.7.4.4.4.8 Develop general intergrated alarms client - Part 2	BCWS	0	0	0	0
		1.7.4.4.5 Develop channel server master (EPICs) - Part 2	BCWS	0	0	0	0
		1.7.4.5.1 Develop detector controls monitoring GUI	BCWS	0	0	0	0
		1.7.4.5.2 Develop detector controls logging and history GUI	BCWS	0	0	0	0
		1.7.4.5.3 Develop detector controls remote inspect client (web browser	BCWS	0	0	0	0
		1.7.4.6 Develop detector control diagnostics and test suite	BCWS	0	0	0	0
		1.7.4.7.1 Write detector controls user documentation	BCWS	0	0	0	0
		1.7.4.7.2 Write system monitoring user documentation	BCWS	0	0	0	0
		1.7.4.8.1 Perform high voltage controls and monitoring verification fo	BCWS	0	0	0	0
		1.7.4.8.2 Perform low voltage controls and monitoring verification for	BCWS	0	0	0	0
		1.7.4.8.3 Perform DCM controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.4 Perform FEB controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.5 Perform water cooling system controls and monitoring verific	BCWS	0	0	0	0
		1.7.4.8.6 Perform enviromental system controls and monitoring verifica	BCWS	0	0	0	0
		1.7.4.8.7 Perform logging and database intergration verification for r	BCWS	0	0	0	0
		1.7.4.9 Review detector control system software, tests and documenta	BCWS	0	0	0	0
		1.7.5.2.2.1 Labor	BCWS	0	0	0	0
		1.7.5.3.1 Labor	BCWS	0	0	0	0
		1.7.5.3.2 Travel	BCWS	0	0	0	0
		1.7.6 Operate IPND	BCWS	0	0	0	0
	CTC[21] Totals:		BCWS	39,684	34,062	20,608	12,737
Control Acct[10] Totals:			BCWS	39,684	34,062	20,608	12,737
Grand Totals:							
			BCWS	39,684	34,062	20,608	12,737

Program:		Description:					
NOVA		NOvA Project					
Run Date:		Status Date:					
4/3/2009		3/31/2009					
Control Ac	*CT*	*WP*		*JUN10*	*JUL10*	*AUG10*	*Cumulative*
		1.7.4.4.4.1 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.2 Develop general intergrated basic controls clients	BCWS	0	0	0	0
		1.7.4.4.4.3 Develop individual system alarm clients	BCWS	0	0	0	0
		1.7.4.4.4.4 Develop general intergrated alarms client	BCWS	0	0	0	0
		1.7.4.4.4.5 Develop individual system controls clients ("expert" clien	BCWS	0	0	0	0
		1.7.4.4.4.6 Develop general intergrated basic controls clients - Part	BCWS	0	0	0	0
		1.7.4.4.4.7 Develop individual system alarm clients - Part 2	BCWS	0	0	0	0
		1.7.4.4.4.8 Develop general intergrated alarms client - Part 2	BCWS	0	0	0	0
		1.7.4.4.5 Develop channel server master (EPICs) - Part 2	BCWS	0	0	0	0
		1.7.4.5.1 Develop detector controls monitoring GUI	BCWS	0	0	0	0
		1.7.4.5.2 Develop detector controls logging and history GUI	BCWS	0	0	0	0
		1.7.4.5.3 Develop detector controls remote inspect client (web browser	BCWS	0	0	0	0
		1.7.4.6 Develop detector control diagnostics and test suite	BCWS	0	0	0	0
		1.7.4.7.1 Write detector controls user documentation	BCWS	0	0	0	0
		1.7.4.7.2 Write system monitoring user documentation	BCWS	0	0	0	0
		1.7.4.8.1 Perform high voltage controls and monitoring verification fo	BCWS	0	0	0	0
		1.7.4.8.2 Perform low voltage controls and monitoring verification for	BCWS	0	0	0	0
		1.7.4.8.3 Perform DCM controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.4 Perform FEB controls and monitoring verification for release	BCWS	0	0	0	0
		1.7.4.8.5 Perform water cooling system controls and monitoring verific	BCWS	0	0	0	0
		1.7.4.8.6 Perform enviromental system controls and monitoring verifica	BCWS	0	0	0	0
		1.7.4.8.7 Perform logging and database intergration verification for r	BCWS	0	0	0	0
		1.7.4.9 Review detector control system software, tests and documenta	BCWS	0	0	0	0
		1.7.5.2.2.1 Labor	BCWS	0	0	0	0
		1.7.5.3.1 Labor	BCWS	0	0	0	0
		1.7.5.3.2 Travel	BCWS	0	0	0	443
		1.7.6 Operate IPND	BCWS	0	0	0	0
	CTC	[21] Totals:	BCWS	14,011	13,374	12,737	1,384,877
Control Acct		[10] Totals:	BCWS	14,011	13,374	12,737	1,384,877
Grand Totals:							
			BCWS	14,011	13,374	12,737	1,384,877