

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		BPA NO.	1. CONTRACT ID CODE	PAGE 1	OF 11
2. AMENDMENT/MODIFICATION NO. M008		3. EFFECTIVE DATE 9/24/2012	4. REQUISITION/PURCHASE REQ. NO. HR-13-066 12/17/2012	5. PROJECT NO. (if applicable)	
6. ISSUED BY U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Monique B. Williams Mail Stop: TWB-01-B10M Washington, DC 20555	CODE 3100	7. ADMINISTERED BY (if other than item 6) U.S. Nuclear Regulatory Commission Div. of Contracts Mail Stop: TWB-01-B10M Washington, DC 20555		CODE 3100	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) GSE POWER SYSTEMS, INC. 1332 LONDONTOWN BLVD STE 200 SYKESVILLE MD 217846587			99. DATED (SEE ITEM 11)	10A. MODIFICATION OF CONTRACT/ORDER NO. NRC-38-10-702	
CODE 606797264	FACILITY CODE	10B. DATED (SEE ITEM 13) 06-17-2010			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 6 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required) Not Applicable
NATES Code: 541512

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) 52.243-1 Changes - Fixed Price

E. IMPORTANT: Contractor is not, is required to sign this document and return 01 _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where possible.)
The purpose of this modification number 08 is to incorporate a payment schedule for tasks 4.2.16 and 4.2.17 and include Copyright Statement for Task 4.2.16 in modification number 07.

Total Ceiling Price: \$2,942,534 (unchanged)
Total Ceiling Authorized to Date: \$2,686,894 (unchanged)
Total Obligation: \$2,686,551 (unchanged)
Period of Performance: 6/10/2010 - 10/31/2013 (unchanged)

See continuation page for specific changes...

Except as provided herein, all terms and conditions of the documents referenced in item 8A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Jay B Umholtz Director, Contracts	15B. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Monique B. Williams Contracting Officer
16B. CONTRACTOR OFFICER <i>Jay B Umholtz</i> (Signature of person authorized to sign)	16C. DATE SIGNED 12/27/2012
16D. UNITED STATES OF AMERICA BY <i>Monique B. Williams</i> (Signature of Contracting Officer)	16E. DATE SIGNED 12/27/2012

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

JAN 18 2013

ADM002

1. On page 5, Section B.5 – PRICE/COST SCHEDULE, incorporate the Payment Schedule below for AP1000 Alarm Processing System and Overview/Control Screen Development as follows:

<u>Milestone</u>	<u>Percentage</u>	<u>Amount</u>	<u>Period</u>
Submit Preliminary Design Specification	25%	\$44,158.75	2 months
Model Development Complete	50%	\$88,317.50	5 months
Integration/Acceptance Testing Complete	25%	\$44,158.75	6 months

CO provided written authorization on October 3, 2012 to GSE.

2. On page 7, Section B.6 – Statement of Work add the following statement to the end of Task 4.2.16, AP 1000 Alarm Processing & Presentation System Development. Please see attached for revised SOW.

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All Other Terms and Conditions Remain Unchanged.

STATEMENT OF WORK

Task 4.2.16 AP1000 Alarm Processing & Presentation System Development

The Contractor shall develop an AP1000 Alarm Processing & Presentation System, hereafter referred to as "the alarm system", for use as part of the AP1000 limited scope simulator being developed, in part, under this contract.

The alarm system shall be capable of running in real-time on a computer system similar to the one provided under Task 4.2.2 of this contract and with the simulator executive system provided under Task 4.2.3 of this contract.

The Contractor shall develop the alarm system using the information provided below and publicly-available information in the AP1000 Design Control Document (DCD) Revision 19 or later. (The DCD is available at <http://www.nrc.gov/reactors/new-reactors/design-cert/amended-ap1000.html>.) Information regarding the alarm system is found in DCD Tier 2 Section 18.8.2. The NRC will provide any necessary non-publicly available data, if possible. Provision of such data will be dependent on its availability to the NRC, and will require the execution of nondisclosure agreement(s) for that information which is proprietary and official authorization for any information which is security-related. In cases where required data is not available, the Contractor will be expected to develop the alarm system using best estimates and engineering judgment in consultation with the NRC.

The Contractor shall be responsible for entering the data into the alarm database for all alarms generated in the models developed under Tasks 4.2.13, 4.2.14 and 4.2.15 of this contract. Alarm priorities will be set in consultation with NRC personnel.

The Contractor shall provide the NRC with full source code and all applicable licenses and rights to use the source code for all software delivered under this task. This source code shall include all FORTRAN and/or C source files.

The Contractor shall provide a minimum of one (1) day of training to the NRC's simulator engineering staff detailing the alarm system architecture, theory of operation and maintenance. The objective of the training is to impart sufficient knowledge to allow the simulator engineers to add or modify alarms, system rectangles, and first-out/functional rectangles, as well as change basic system logic (including alarm filtering and suppression logic) if necessary.

ALARM SYSTEM DESIGN

The alarm system shall run as a separate process and communicate with the simulation process to receive necessary data. It shall be capable of announcing and listing all defined alarms for all plant systems when they become active and providing a mechanism for the users to acknowledge, reset, track, search and filter these alarms. The alarm system shall inform the user which plant system and/or which plant area contains one or more active alarms, and shall be capable of providing the user with access to the response procedures for any alarm.

The alarm system shall present alarms on two different displays. One display will be accessible as part of the 10-monitor Wall Panel Information System (WPIS); the second display will be accessed from the operator and shift supervisor workstations.

The alarm system shall utilize a database to contain information about each alarm. As it is impossible to determine at this time how many alarms there will ultimately be, the database shall be able to handle thousands of alarms and the associated information for each. Microsoft® SQL Server 2008 R2, or later, shall be used. This database shall also include system configuration variables.

The alarm system shall employ a color-coding scheme based on alarm priority, with red, orange, yellow, and light blue for alarm priorities 1, 2, 3, and 4, respectively. While an alarm condition exists and is unacknowledged, that alarm shall flash at a fast rate in the appropriate color for the assigned alarm priority. When the alarm condition for an alarm has been acknowledged and the signal is still in the alarm state, the alarm shall constantly show in the appropriate color for the assigned alarm priority. For an alarm condition that returns to normal before the user acknowledges the alarm, the associated alarm shall slowly flash in green; when the flashing green alarm is acknowledged, the alarm shall return to the "off" state.

WPIS Display

The alarm system shall provide one display that will be visible on one of the large panel monitors in the front of the simulated control room. The display shall be developed to appear on a 46-inch diagonal monitor (40-inches wide by 22.5-inches high) with a pixel resolution of 1386 x 768. The left side of the display will be dedicated to alarms associated with the primary systems and the right side will handle alarms for the balance of plant (BOP) systems (Figure 1).

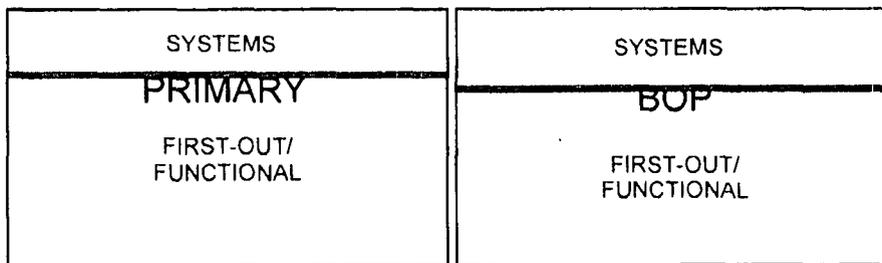


Figure 1 – WPIS Display

The upper portion of this display shall include one hundred and twenty-eight (128) rectangles containing the three-character system abbreviation for each system from which an alarm may originate: 64 rectangles for the primary systems and 64 rectangles for the BOP systems. Upon activation of an alarm, a distinctive audible horn shall sound and the system rectangle associated with the initiating alarm shall blink in a color consistent with the alarm prioritization scheme detailed above. The rectangle color will be based on the associated active alarm with the highest priority. The horn shall return to silent when all active alarms have been acknowledged, or for a period of five (5) minutes whenever the horn override function of the alarm system is activated. The rectangle shall continue to blink until all alarms initiated by components of that system have been acknowledged. When all alarms have been acknowledged, the rectangle will stay on solid in a color based on the highest priority active alarm. When all alarms within a system have been cleared, the rectangle shall return to its normal state.

The lower portion of the WPIS display shall contain one hundred and twenty-eight (128) rectangles which will identify "first-out/functional" alarms. The rectangles are slightly larger than the system rectangles. The first-out/functional alarms identify plant areas where an alarm condition has occurred and, as with the system rectangles mentioned above, are evenly divided between primary and BOP designations. They also share the same operational logic as the system rectangles described above with respect to the color of an active rectangle and when a rectangle blinks, is on solid or has returned to the normal state.

Figure 2 below shows the currently expected system labels for primary systems while Figure 3 shows BOP systems. Figure 4 shows the currently expected primary first-out/functional panels and Figure 5 shows the BOP first-out/functional panels. The final set of labels will be determined through discussion between NRC and Contractor personnel.

PXS	RCS	CVS	CNS	WLS	PMS	DAS	CCS		PSS	VLS	VAS	VES	VZS	VDS	VWS
PCS	IIS	RNS	VUS	WGS	PLS	RMS	SWS		SSS	VCS	VRS	VBS	VNS	VVS	VYS
	SMS	SFS	FHS	WRS	DDS	SJS				VFS	VHS	VXS	VIS	VPS	
	RXS		MHS	WSS	MES	OCS						VTS	VGS	VQS	

Figure 2 - Primary System Rectangles

ZBS	IDS	EGS	DOS	ZAS	MTS		SGS	CDS	FWS	CWS	CAS	RWS	WWS	FPS	WDS
ZRS	EDS	EFs	DFS	ZVS	TOS		MSS	HDS	CMS	TCS	PGS	PWS	SDS	YFS	OWS
ECS		EHS	ZOS	HSS	LOS		GSS	CPS	TDS	CES		DTS	RDS		SES
ELS		EQS		HCS			ASS	BDS		CFS		DWS	DRS		TVS

Figure 3 - Balance of Plant System Rectangles

Workstation Display

The alarm system workstation display (Figure 6) shall be sized to appear on a wide-format, 21-inch monitor operating with a screen resolution of 1920 x 1080 pixels. This display may be

SAFEGUARDS ACTUATION	ADS STAGE 4	CONTAINMENT ISOLATION	MAIN FW ISOLATION	NEUTRON FLUX	RCS HOT LEG FLOW	MAKEUP	CNMT PRESSURE
REACTOR TRIP	ADS STAGE 1-3	CVS MAKEUP ISOLATION	STARTUP FW ISOLATION	OTDT MARGIN	PRESSURIZER	LETDOWN	CNMT FLOODUP
RCP TRIP	IRWST INJECTION	CVS LETDOWN ISOLATION	STM LINE ISOLATION	OPDT MARGIN	RCP	BORIC ACID TANK	PCS RECIRC LOOP FLOW
TURBINE TRIP	IRWST RECIRCULATION	AUX SPRAY ISOLATION	SG RELIEF ISOLATION	CORE EXIT TEMPERATURE	STEAM GEN 1	COMPONENT COOLING	PCCWST PCCAWST
DIVISION TRIP	RX VESSEL HEAD VENT	RNS CNMT ISOLATION	SG BLOWDN ISOLATION	ROD INSERTION LIMIT	STEAM GEN 2	RCS PRESSURE	CMT
FUNCTION TRIP	PASSIVE CNMT COOLING	CNMT AIR FILTER ISOL	STEAM DUMP BLOCK		MAIN STEAM	NORMAL RHR	IRWST
LCO	CORE MAKEUP TANK INJECTION	REFUELING CAV ISOLATION	BORON DILUTION BLOCK		PRIMARY SAMPLING	RCS HOT LEG LEVEL	ACCUMULATORS
	PRHR HX ALIGNMENT	MCR ISOLATION	PZR HEATER BLOCK		COOLING TOWER	SPENT FUEL POOL	OPER DEFINED PRIMARY

Figure 4 - Primary First-Out/Functional Rectangles

GENERATOR	CLASS 1E POWER	TURBINE BEARING TEMPERATURE	TCS COOLING	MFW PUMP A	INSTRUMENT AIR SUPPLY	SG BLOWDOWN RADIATION	MCR / CSA RAD / VENT
MAIN XFMR	NON CLASS 1E DC POWER	LP TURBINE EXH HOOD TEMP	TCS LOADS	MFW PUMP B	CONDENSATE POLISHING	CONTAINMENT RADIATION	AUX / ANNEX RAD / VENT
	DIESEL GENERATOR	TURBINE SPEED		MFW PUMP C	SG BLOWDOWN HX TEMP	MAIN STEAM LINE RADIATION	FIRE / SMOKE ALARMS
	ELECT EQUIP ROOM TEMP	TURBINE DIFF EXPANSION		STARTUP FW PUMPS	DEMIN	AREA MONITOR RADIATION	PMS SYSTEM TROUBLE
		TURBINE BEARING VIBRATION		BOOSTER FW PUMPS	CIRC WATER HIGH DP	GASEOUS RADWASTE	DAS SYSTEM TROUBLE
				CONDENSER	CONDENSER TUBE CLEANING	LIQUID RADWASTE	DCIS SYSTEM TROUBLE
						SOLID RADWASTE	
							OPER DEFINED SECONDARY

Figure 5 - Balance of Plant First-Out/Functional Rectangles

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selected in a similar fashion to the system displays used by the operators and shift supervisor. It shall be available from any workstation in the simulated control room with the exception of those reserved for the Diverse Actuation System Panel and the Primary and Secondary Dedicated Safety Panels. The upper portion of the workstation display will be similar to the WPIS: it will contain system and first-out/functional alarm rectangles which operate exactly the same as those on the WPIS display. However, on the workstation display, the rectangles may be clicked on using the workstation's mouse to list all active alarms associated with the selected rectangle. The area on the workstation display below the rectangles shall be dedicated to user interface controls, display of a list of individual alarms, and an alarm system status bar.

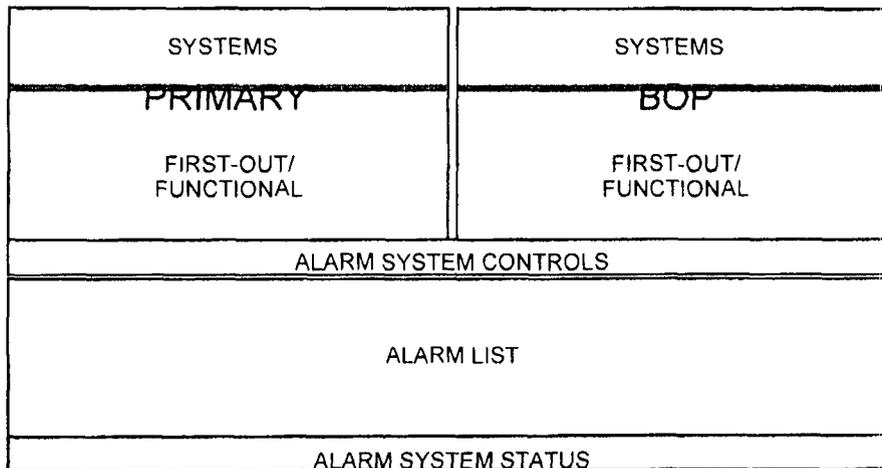


Figure 6 – Workstation Display

The priority-based color-coding logic described previously will be implemented in the alarm list as follows:

- While an alarm condition exists and is unacknowledged, the background color of the line shall be the appropriate color for the associated alarm priority, the lettering will be black, and the line will be flashing at a fast rate.
- When the alarm condition for an alarm has been acknowledged and the signal is still in the alarm state, the background color of the line shall be black, the lettering will be the appropriate color for the associated alarm priority, and the line will not be flashing.
- For an alarm condition that returns to normal before the user acknowledges the alarm, the associated alarm line shall slowly flash with white letters on a green background.
- When an acknowledged alarm returns its normal state (i.e., clears), the associated alarm line shall change to white letters on a green background and shall slowly flash.

The information contained on the alarm lines shall be divided into columns, with a column name at the top of the list. The columns shall be demarcated by light gray vertical lines. The following information shall be displayed on each line:

- TIME – the time the alarm occurred, using the 24-hour clock format
- SYS – the three-letter designator for the system with which the alarm is associated
- DESCRIPTION
- TYPE – whether the alarm is a HIGH1 (high), HIGH2 (high-high), LOW1 (low), LOW2 (low-low), or BOOL (boolean) alarm

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- VALUE – current value of the point generating the alarm
- UNITS – the units of the value being displayed
- Q – the current quality of the point initiating the alarm. This column is blank if the quality is good; otherwise, it is a single-character code representing the point's quality. A point's quality is one of the results of the calculations performed by the Signal Select Algorithms in the plant Instrumentation and Control System.
- LIMIT – the value that initiates the alarm
- POINT NAME – the name of the point initiating the alarm
- PRI – the alarm's priority (1,2,3 or 4)
- STATUS – the current status of the alarm (NEW, ACKD, CLR)
- AREA – the three-character designator for the first-out/functional area with which the alarm is associated. This column is blank if the alarm is not associated with an area. The designator begins with either a "P" for primary or "B" for BOP; the second character is a letter (A through H) representing the column in which the area's rectangle is located; and the third character is a number (1 through 8) denoting the row in which the area's rectangle is located. For example, the "LCO" first-out/functional area would be "PA7", while the "Instrument Air Supply" first-out/functional area would be "BF1".
- CODE – a value will be displayed in this column only when the list of suppressed alarms is being displayed. The two-letter code shall represent the reason the alarm is being suppressed.

In addition to the information displayed, the user shall be able to click on an alarm line to access the associated alarm response procedure, in PDF format, in a separate window. The Contractor shall not be responsible for developing the alarm response procedures.

The alarm system controls on the bar that appears in the middle of the workstation display shall include the following:

- Button to override the annunciator horn off for a period of 5 minutes.
- Button to silence the annunciator horn and acknowledge all new alarms.
- Button to refresh the alarm list, removing all cleared alarms.
- Button to print the alarm list.
- Button to access the user options for alarm suppression, which shall include suppression of the selected alarm(s) and the capability of disabling/enabling the different modes of alarm suppression.
- Button to hide/show the system and first-out/functional rectangles. When the rectangles are hidden, the alarm system controls bar moves to the top of the workstation display and the alarm list expands vertically to fill the screen.
- Button to freeze the current list of alarms and inhibit addition of new ones. A visual cue shall be provided on the screen when this option is enabled.
- Dropdown menu for selecting the input options for filtering the current alarm list by priority.
- Dropdown menu for selecting the input options for filtering the current alarm list by first-out/functional area.
- Dropdown menu for selecting the input options for filtering the current alarm list by system.
- Dropdown menu for selecting the input options for filtering the current alarm list by alarm state.
- Dropdown menu for selecting the input options for filtering the current alarm list by point type.
- Button to search, or filter, the current alarm list based on the parameter(s) specified in the dropdown menus.

The area where the alarms are listed should appear as a series of tabbed pages similar to worksheets in an Excel workbook. By selecting different tabs, the alarms shall be presented in the following ways:

- Current – display all current alarms
- Recent – display all alarms received within the last 5 minutes
- Cleared – display only the cleared alarms
- Suppressed – display all suppressed alarms (except those on the “Standing List”)
- Equipment – display only those alarms associated with pieces of equipment (e.g., pumps, valves, fans, breakers)
- Standing – display those alarms which have been moved by the user to the “Standing List”
- Filtered – display only those alarms meeting the criteria specified by the selected filter parameter(s)

The alarm system status bar shall be at the bottom of the workstation display. It shall provide a count of the number of new alarms, the number of acknowledged alarms, the number of cleared alarms, the number of equipment alarms, and the number of suppressed alarms. The status bar shall have six status boxes that indicate the different conditions under which alarms are currently being suppressed. Lastly, the status bar shall also have an indication that reflects whether the annunciator horn has been overridden, and a separate indication that reflects that the alarm system is operational (i.e., updating). This operational indicator shall be some sort of an animated icon, such as a bar that is spinning on an axis when the alarm system is updating.

Alarm Processing

As indicated above, the alarm system shall be designed to allow the user to filter the current alarms based on priority, system, first-out/functional area, alarm state, and/or point type.

The system shall also be designed to allow for suppression of alarms based on different criteria. The following types of alarm suppression shall be provided:

- **Plant Mode Suppression:** The alarm system shall allow for suppression of alarms based on plant operating mode. The user shall have the ability to enable or disable plant mode suppression. The associated suppression status box on the alarm system status bar shall be labeled "PM".
- **Nuisance Alarms:** The alarm system shall have the capability to determine the frequency of alarms to help the user detect nuisance alarms. The user shall have the ability to add and remove nuisance alarms from the suppressed alarm list. The associated suppression status box on the alarm system status bar shall be labeled "NA".
- **Consequence Alarms:** These alarms occur as a result of a known sequence of events. For example, the loss of a power bus will cause all equipment connected to that bus to show a loss-of-power equipment fault. In this scenario, these equipment fault alarms can be identified in the alarm database as a consequence of the loss of power bus alarm and would therefore be suppressed. The user shall have the ability to enable or disable consequence alarming. The associated suppression status box on the alarm system status bar shall be labeled "CA".
- **Redundancy Alarms:** Some plant parameters are measured with redundant sensors, and the utilized process value is the average of all channels, the channel with the highest value, or the result of other similar processing done by the Signal Select Algorithms in the plant Instrumentation and Control System. The results of the SSAs include alarms that indicate deviation of an input signal from a defined limit, failure of an input signal, and other failures of input signals. The user shall have the ability to enable or disable suppression of these redundancy alarms. The associated suppression status box on the alarm system status bar shall be labeled "RA".
- **Eclipsing:** If multiple alarms are generated from one plant operating signal, eclipsing is required so as not to overload the user. For cases where digital alarms are generated from an analog value, or multiple digital alarms exist for a single parameter, and the process variable exceeds the higher alarm level, only the higher level alarm shall be displayed on the current alarm list. As an example, if there is a HIGH1 heater level alarm and a HIGH2 heater level alarm, the HIGH1 heater level alarm will be suppressed if the setpoint for the HIGH2 heater level alarm is reached. The user shall have the ability to enable or disable eclipsing suppression. The color of the "EC" suppression status box will indicate when alarms are suppressed due to eclipsing.
- **Standing Alarms:** The capability shall exist to allow the user to suppress standing alarms by moving (shelving) them to another dedicated "Standing Alarm" list. The color of the "SA" suppression status box will indicate when alarms are on the "Standing Alarm" list.

Alarm System Configuration Variables

As a minimum, the following design characteristics of the alarm system shall be defined as system configuration variables to support easy modification in the future:

- Priority 1 alarm color
- Priority 2 alarm color
- Priority 3 alarm color
- Priority 4 alarm color
- Alarm line text color
- Alarm line background color
- Unacknowledged active alarm flash rate
- Unacknowledged cleared alarm flash rate
- Cleared alarm flash rate
- Annunciator horn sound file for primary system alarms
- Annunciator horn sound file for BOP system alarms
- Length of time the annunciator horn override lasts
- Labels for the different rectangles in the system and first-out/functional matrices.

Task 4.2.17 AP1000 Overview and Control Screens

The Contractor shall develop a plant overview display that will appear on three of the 46-inch diagonal, thin-bezel monitors that are part of the Wall Panel Information System (WPIS). The three monitors are arranged horizontally next to one another and each has a screen resolution of 1920 x 1080 pixels. The display shall provide an overview of plant status from the reactor vessel to the steam generators to the main turbine/generator and from the main condensers to the condensate pumps, low pressure heaters, deaerator storage tank, feedwater booster and main feedwater pumps, and high pressure heaters. The pressurizer, reactor coolant pumps, and startup feedwater shall also be depicted. The NRC shall provide the Contractor with a list of the dynamic valves, pumps and parameters to be included on the overview display.

The Contractor shall be responsible for providing the DCS software necessary to provide controls and indications for the systems and equipment simulated in the models developed under Tasks 4.2.13 and 4.2.14 of this contract.

The Contractor shall be responsible for integrating the displays and DCS software developed under this task with the models developed under Tasks 4.2.13, 4.2.14 and 4.2.15 of this contract, as applicable.

The Contractor shall provide the NRC with full source code and all applicable licenses and rights to use the source code for all software delivered under this task. This source code shall include all FORTRAN and/or C source files as well as all other files generated using the GSE Jade modeling tools.

The Contractor shall provide a minimum of one (1) day of training to the NRC's simulator engineering staff detailing the display and DCS software architecture, theory of operation and maintenance. The objective of the training is to impart sufficient knowledge to allow the simulator engineers to add or modify the displays, control pop-ups, and the user interface.