

TECHNICAL BULLETIN ISSUED: 1 March 2012 DOCUMENT: TB 032

TECHNICAL BULLETIN

Design Program Upgrade Version 12.3

DISTRIBUTION TO:-

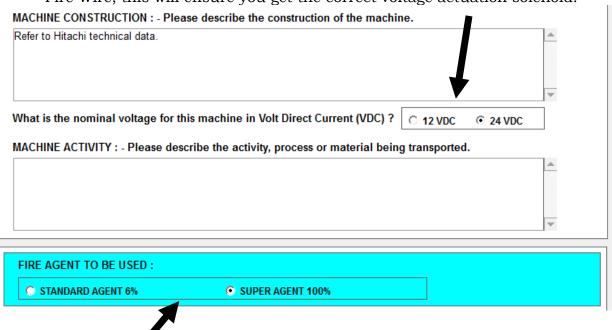
Existing designers of ETI Fire Systems using version 12.2.

After recent announcements of our new product releases, being Super Agent (Refer TB030 and Fire Wire (Refer TB031), I am pleased to announce that our proprietary software has been also updated with the changes. The enclosed email will advise the means of gaining a copy of version 12.3.

Please uninstall version 12.2 and simply install the new version. Activation and licensing procedures are unchanged.

The following are notes and advices apply on the changes from 12.2 to 12.3.

1) In APPLICATION SPECIFICATION – PAGE 2
You are asked to nominate the battery voltage of the machine. If you order Fire Wire, this will ensure you get the correct voltage actuation solenoid.



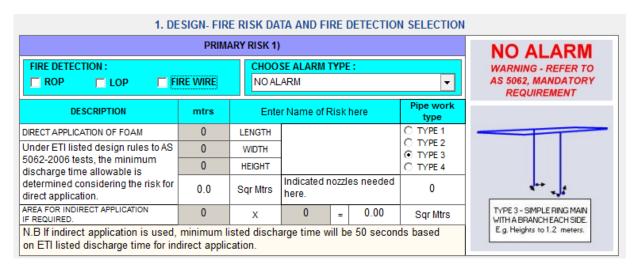
You are also asked which agent you are using. This is important because it will effect the allowable discharge times in design and will also change the part numbers to the selected agent type.



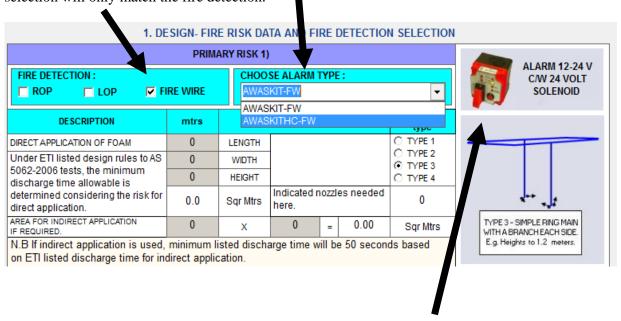
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2) In BASIC DESIGN

You first must select what fire detection you are using!



When you do that, you must select the alarm that you plan to use. To avoid mistakes the available selection will only match the fire detection.

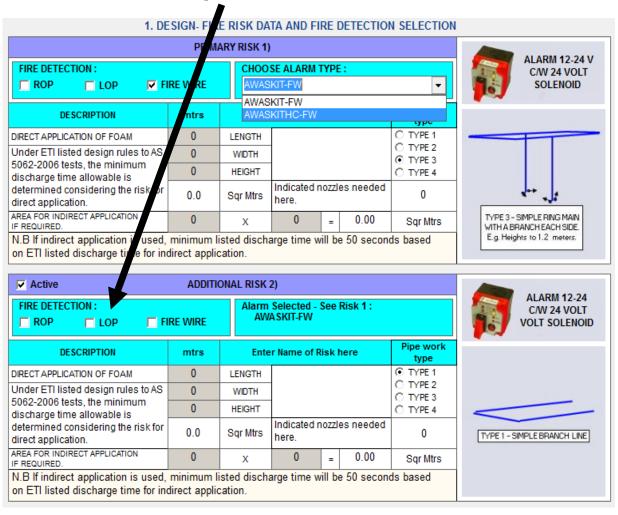


A picture will appear against the selection made just as a visual confirmation.



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If more fire risk areas are added by clicking the "active" box, you can select fire detection if that is needed for that area, however the alarm being used is already nominated from Risk 1, so alarm cannot be changed here. It is however reconfirmed with the same picture.





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At the bottom of BASIC DESIGN is the TOTAL RISK SUMMARY where the important calculations are made for agent quantity, nozzle quantity and predicted discharge time. Here is where the alarm shutdown delay setting must now be nominated.

TOTAL RISK SUMMARY	CALC		AGENT SECTED: SUPER AGENT 100%		
Total Risk Area(s) - Direct Application	0.0	Sqr Mtrs	SHUTDOWN TIME ALLOWANCE		
Total Minimum Foam Required	0	Litres	○ 0 Sec ○ 6 Secs ○ 12 Secs ○ 24 Secs		
Minimum Total Nozzles Required	0	0	PASS FOR MINIMUM NOZZLES		
Area Allowance for Indirect Application	0.0	Sqr Mtrs	DESIGN ALLOWANCE - INDIRECT AREA.		
Min. allowable discharge time, normally	31	31	DESIGN DISCHARGE TIME MIN PASS		
Extra Foam Required for Indirect Application	0	Litres	EXTRA FOAM FOR INDIRECT AREA.		
Extra Foam if cylinders Horizon at	0.0	Litres	20% if applicable		
Total MINIMUM Foam Required for this Druign	0	Litres	Adjusted for rounding up from nozzle count.		
added to the minimum xtinguish	ing time to al	low for redu	by ETI to AS5062-2006. Engine shutdown time allowance is ced performance before the engine is stopped. In container, ETI Super Agent should be used with no less than		

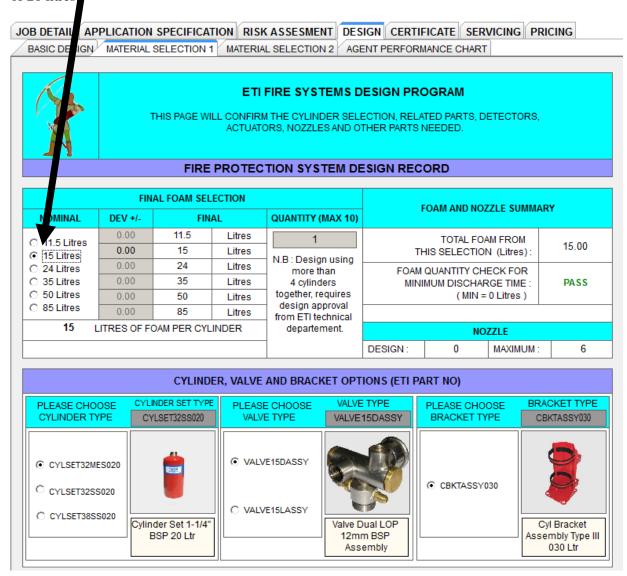
A slight change to minimum discharge time rule will now apply. The time estimated to achieve engine shutdown will be added to the absolute design minimum. Above, the new Super Agent has a minimum discharge time of 25 seconds, however the selected 6 seconds for engine shutdown has been added to this. This is intended to keep designs on the conservative side of absolute minimums, allowing for the disruption to fire fighting effect that may be caused while the engine is still running.



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3) In DESIGN – MATERIAL SELECTION 1

There is a new cylinder now available. It has a fill capacity of 15 liters of agent with a total volume of 20 litres.



This cylinder is the same diameter as the 30 liter cylinder at 230mm but is considerably shorter. It uses the same bracket as the 30 Liter making inventory simpler.

Please note also that the 30 Liter and 20 Liter Cylinders are unique in they have options to fit any size valve made by ETI.

- 1) Order CYLSETMES() for small series ½" outlet ported valves, M-30 Inlet.
- 2) Order CYLSET32 () for standard series ¾"outlet ported valves, 1 ¼" Inlet.
- 3) Order CYLSET38 () For special orders for 1" outlet ported valves, 1 ½" Inlet.



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In this same section, the new Remote Electric actuator has been added. In the selection below, you see the manual actuation points is 2 in the comment box. This is because the Fire Wire Alarm has one actuation point on the alarm face added to the 1 remote electric actuator selected. This would give an all electric system. As per the technical bulletin, clear understanding of this and communication to the customer is needed. For example while the two electric actuation point work on battery backup when the engine is shutdown, isolating the machines battery may isolate the fire system entirely. This would be perfectly acceptable however if the risk assessment accepted that an engine fire is a remote possibility if the engine is not running!

SELECT REMOTE ACTUATORS AND FIRE DETECTION						
ETI PART NO	ETI PART NO DESCRIPTION		TOTAL	COMMENT		
VALVEMAN20LOPASSY	MANUAL ACTUATOR 20mm VALVE		0	MANUAL VALVE ACTUATOR INCLUDED STANDARD		
(SEE ALARM SELECTION)	ONE MANUAL ACTUATION ON ALARM		1	TOTAL MANUAL ACTUATION POINTS = 2		
REMACTUATORB	REMOTE ACTUATOR ASSEMBLY ROP	•	0			
REMOTEBLOPI	REMOTE ACTUATOR LOP KIT		1	PASS		
REMOTELECT	IOTELECT REMOTE ACTUATOR ELECTRIC		1	MINIMAL 2 ACTUATION POINT		
SOLES24V	EXTRA CYLINDER SOLENOID		EXTRA	ELECTRIC ACTUATION		
	N.B: ONE STANDARD INCLUDED IN ALARM KIT	1	1	SOLENOID VALVE		
NOTES ON REMOTE ACTUATORS: AS 5062-2006 REQUIRES A MINIMUM OF (1) MANUAL ACTUATION POINT. IF CO2 IS USED A MINIMUM OF (2) POINTS IS REQUIRED. IF THE ELECTRIC FIRE WIRE SYSTEM IS USED, AN ELECTRIC SOLENOID ACTUATOR MUST BE FITTED TO EACH CYLINDER VALVE. ONE IS INCLUDED INTHE ALARM KIT. EXTRAS MUST BE ORDERED WHEN MORE THAN ONE AGENT CYLINDER IS USED						

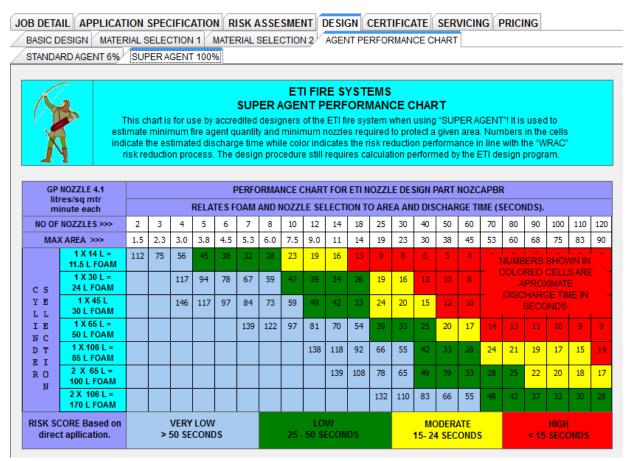
Below shows an alternative arrangement for a Fire Wire installation where an ROP pneumatic remote actuator could be used if the customer wanted to at least ensure that the manual actuator still works if the battery is completely isolated. In this selection, the designer needs to ensure there is an normal alarm pressure switch on the manual actuation line. This is because the alarm still must be notified if someone uses a manual actuation point.

SELECT REMOTE ACTUATORS AND FIRE DETECTION						
ETI PART NO	DESCRIPTION		TOTAL	COMMENT		
VALVEMAN20LOPASSY	MANUAL ACTUATOR 20mm VALVE		0	MANUAL VALVE ACTUATOR INCLUDED STANDARD		
(SEE ALARM SELECTION)	ONE MANUAL ACTUATION ON ALARM		1	TOTAL MANUAL		
REMACTUATORB	REMOTE ACTUATOR ASSEMBLY ROP	•	1	ACTUATION POINTS = 2 PASS		
REMOTEBLOPI	REMOTE ACTUATOR LOP KIT		1			
REMOTELECT	MOTELECT REMOTE ACTUATOR ELECTRIC		0	MINIMAL 2 ACTUATION POINT		
SOLES24V	EXTRA CYLINDER SOLENOID	0	EXTRA	ELECTRIC ACTUATION		
	N.B: ONE STANDARD INCLUDED IN ALARM KIT	1	1	SOLENOID VALVE		
NOTES ON REMOTE ACTUATORS: AS 5062-2006 REQUIRES A MINIMUM OF (1) MANUAL ACTUATION POINT. IF CO2 IS USED A MINIMUM OF (2) POINTS IS REQUIRED. IF THE ELECTRIC FIRE WIRE SYSTEM IS USED, AN ELECTRIC SOLENOID ACTUATOR MUST BE FITTED TO EACH CYLINDER VALVE. ONE IS INCLUDED INTHE ALARM KIT. EXTRAS MUST BE ORDERED WHEN MORE THAN ONE AGENT CYLINDER IS USED						



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4) In the AGENT PERFORMANCE CHART area, there is now a second tab for SUPER AGENT. This is the same concept you have been trained on for the standard 6% agent which is still there on the adjacent tab. The new Super Agent chart reflects the much lower minimum discharge times listed for this product, and presents it in the same risk profile as our standard Workplace Risk Assessment and Control WRAC. Of course the design program already handles the design relationship between Area, No of Nozzles and the amount of Agent used in a design. These charts are intended to provide assistance in presentations and training or where an estimate needs to be made preliminarily before using the design program.



Yours sincerely

LEIGH WALDON Technical Director

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