

Background of Cost Impact Statement

The following quotations provide the basis for the cost impact statement supporting the Fire Suppression Systems Association proposal for new IFC 914.3.8.

Labor cost estimates are based on average labor rates in the Greater New York City area.

Quote 1 – Water Mist Brand A

JOB: IBC Initiative - Generator Room Fire Suppression System - Option #1 - Water Mist System						
CONTACT:			JOB #:			
PROPOSAL #:			DATE:		12/4/2020	
BIDDING TO:			BID DATE:			
			PAGE		1	
<i>Generator Room Dimensions: 40' x 15' x 15.4' (height)</i>				<i>(1) MAU is Listed for 9,180 cubic feet</i>		
DESCRIPTION	MODEL #	QTY	COST	EXT		
Addressable Control Panel		1	\$1,309.00	\$1,309.00		
Multi-Tone Horn Strobe		2	\$51.25	\$102.50		
Heat detector - Addressable - Rate-of-Rise		2	\$37.83	\$75.66		
Heat detector Bases		2	\$6.38	\$12.76		
Manual Pull Station - Dual Action w/ AI Module		1	\$82.88	\$82.88		
Water Mist System - Includes Tanks & Nozzles		1	\$9,500.00	\$9,500.00		
			Ext. COST:	\$11,082.80		

TOTALS: EQUIP & MATERIAL ->				
DESCRIPTION	QTY/DAYS		@	EXTENDED
Equipment COST:	\$11,082.80	Multiplied by Mark-Up of	1.200	\$13,300.00
Engineering:	1	Man day(s)	\$1,200.00	\$1,200.00
Technician Labor Programming/ Check-out (straight time):	1	Man day(s)	\$1,200.00	\$1,200.00
Test for authorities (straight time):	1	Man day(s)	\$1,200.00	\$1,200.00
Union Fitter Labor:	1	Team day(s)	\$2,400.00	\$2,400.00
Union Electrical Installation	1	Team day(s)	\$2,400.00	\$2,400.00
Sub-Total (Excludes ALL Tax)				\$21,700.00
Total Turnkey Price (Excludes ALL Tax):	Quote 1			\$21,700.00

Quote 2- Foam System

JOB: IBC Initiative - Generator Room Fire Suppression System - Option #2 - Closed Head 3% AFFF Foam						
		CONTACT:		JOB #:		
		PROPOSAL #:		DATE: 12/4/2020		
		BIDDING TO:		BID DATE:		
				PAGE 1		
<p><i>Generator Room Dimensions: 40' x 15' x 15.4' (height)</i></p>						
DESCRIPTION	MODEL #	QTY	COST	EXT		
Closed Head 3% AFFF Foam System - Consists of:		1	\$10,500.00	\$10,500.00		
(1) 36 Gallon Vertical Tank						
(1) 2" Proportioner Threaded						
(1) Water Inlet Ball Valve						
(1) Concentrate Isolation Ball Valve						
(1) 1" Swing Check Valve						
(1) Hydraulic Concentrate Control Valve						
(1) 55 Gallon Drum of Foam						
Foam System - Alarm Valve, Sprinkler Heads, Pipe & Fittings		1	\$2,000.00	\$2,000.00		
			Ext. COST:	\$12,500.00		

TOTALS: EQUIP & MATERIAL ->				
DESCRIPTION	QTY/DAYS		@	EXTENDED
Equipment COST:	\$12,500.00	Multiplied by Mark-Up of	1.200	\$15,000.00
Engineering:	1	Man day(s)	\$1,200.00	\$1,200.00
Test for authorities (straight time):	1	Man day(s)	\$1,200.00	\$1,200.00
Union Fitter Labor:	2	Team day(s)	\$2,400.00	\$4,800.00
Sub-Total (Excludes ALL Tax)				\$22,200.00
Total Turnkey Price (Excludes ALL Tax):	Quote 2			\$22,200.00

Quote 3 – HFC-227ea

JOB: IBC
Initiative -
Generator
Room Fire
Suppression
System -
Option #3 –
HFC-227ea
Clean Agent

CONTACT: _____ **JOB #:** _____

PROPOSAL #: _____ **DATE:** **12/4/2020**

BIDDING TO: _____ **BID DATE:** _____

_____ **PAGE** **1**

Generator Room Dimensions: 40' x 15' x 15.4'
(height)

DESCRIPTION	MODEL #	QTY	COST	EXT		
Pounds of HFC-227ea		314	\$10.90	\$3,422.60		
350lb. Cylinder with accessories	N/A	1	\$2,993.71	\$2,993.71		
Nozzles	Varies	2	\$98.00	\$196.00		
Addressable Control Panel		1	\$1,309.00	\$1,309.00		
Multi-Tone Horn Strobe		2	\$51.25	\$102.50		
Heat detector - Addressable - Rate-of-Rise		2	\$37.83	\$75.66		
Heat detector Bases		2	\$6.38	\$12.76		
Manual Pull Station - Dual Action w/ AI Module		1	\$82.88	\$82.88		
Abort with AI Module		1	\$69.50	\$69.50		
Maintenance Key Switch with AI Module		1	\$100.75	\$100.75		
				Ext. COST:	\$8,365.36	

TOTALS: EQUIP & MATERIAL ->				
DESCRIPTION	QTY/DAYS		@	EXTENDED
Equipment COST:	\$8,365.36	Multiplied by Mark-Up of	1.200	\$10,039.00

Engineering:	1	Man day(s)	\$1,200.00	\$1,200.00
Technician Labor Programming/ Check-out (straight time):	1	Man day(s)	\$1,200.00	\$1,200.00
Test for authorities (straight time):	1	Man day(s)	\$1,200.00	\$1,200.00
Union Fitter Labor:	1	Team day(s)	\$2,400.00	\$2,400.00
Union Electrical Installation	1	Team day(s)	\$2,400.00	\$2,400.00
Sub-Total (Excludes ALL Tax)				\$18,439.00
Total Turnkey Price (Excludes ALL Tax):	Quote 3			\$18,439.00

Quote 4 – Water Mist Brand B

JOB: IBC Initiative - Generator Room Fire Suppression System - Option #4 - Water Mist* *Assumes adequate water pressure - minimum 130PSI from existing sprinkler system.						
CONTACT:			JOB #:			
PROPOSAL #:			DATE:		12/4/2020	
BIDDING TO:			BID DATE:		PAGE 1	
Generator Room Dimensions: 40' x 15' x 15.4' (height)						
DESCRIPTION	MODEL #	QTY	COST	EXT		
Water Mist System:						
Conventional Control Panel		1	\$510.00	\$510.00		
Conventional Heat Detectors		2	\$10.25	\$20.50		
Conventional Pull Station		1	\$19.50	\$19.50		
Multi-Tone Horn Strobe		2	\$51.25	\$102.50		
Nozzles		8	\$125.00	\$1,000.00		
Pipe & Fittings		1	\$750.00	\$750.00		
Deluge Valve		1	\$1,670.00	\$1,670.00		
		0	\$0.00	\$0.00		
		0	\$0.00	\$0.00		
			Ext. COST:	\$4,072.50		

TOTALS: EQUIP & MATERIAL ->				
DESCRIPTION	QTY/DAYS		@	EXTENDED
Equipment COST:	\$4,072.50	Multiplied by Mark-Up of	1.200	\$4,887.00
Engineering:	1	Man day(s)	\$1,200.00	\$1,200.00
Technician Labor	1	Man day(s)	\$1,200.00	\$1,200.00

Programming/ Check-out (straight time):				
Test for authorities (straight time):	1	Man day(s)	\$1,200.00	\$1,200.00
Union Fitter Labor:	1	Team day(s)	\$2,400.00	\$2,400.00
Union Electrical Installation	1	Team day(s)	\$2,400.00	\$2,400.00
Sub-Total (Excludes ALL Tax)				\$13,287.00
Total Turnkey Price (Excludes ALL Tax):	Quote 4			\$13,287.00