

SAMPLE REPORT PRINTOUT - MSI 2621

Report based on example project Systems and Powerplant Analysis


Item: 26 Fire Protection – 20 Extinguishing – 21 Engine Fire Extinguishing
MSI: 26-21-00
Pages Printed: 1 to 31

Based on US Black & White Standard Template

FORM: 0	MSI NO. 26-21-00	MSI Description Engine Fire Extinguishing							
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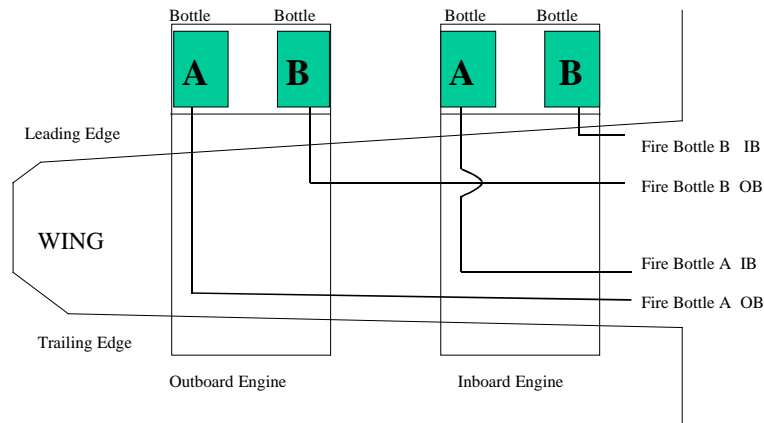
Component Number	Part Number Manufacturer/ Supplier	Description	Could failure be undetectable or not likely to be detected by the operating crew during normal duties?	Could failure affect safety on ground or in flight?	Could failure have a significant operational impact?	Could failure have a significant economic impact?	MSI?	Highest Manageable MSI Level	Remarks
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26-21-00	None	Engine Fire Extinguishing	Yes	Yes	Yes	Yes	Yes	26-21-00	
26-21-10	AC2620G103	Fire Extinguisher bottle assembly.	No	Yes	Yes	Yes	Yes	26-21-00	
26-21-20	35201020	Double Check Tee	Yes	No	Yes	Yes	Yes	26-21-00	
26-21-30	AC2620G105	Discharge Pipe LH	Yes	No	Yes	Yes	Yes	26-21-00	
26-21-40	AC2620G104	Discharge Pipe RH	Yes	No	Yes	Yes	Yes	26-21-00	
26-21-50	AC2620E120	Pipe Assembly L/H with permaswage fittings	Yes	No	Yes	Yes	Yes	26-21-00	
26-21-60	AC2620E122	Pipe Assembly R/H with permaswage fittings	Yes	No	Yes	Yes	Yes	26-21-00	

		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)	
		SYSTEM BREAKDOWN, FUNCTIONAL DESCRIPTION, AND DESIGN FEATURES	
FORM: 1	MSI NO. 26-21-00	MSI Description Engine Fire Extinguishing	

ENGINE FIRE EXTINGUISHING SYSTEM

The function of the fire extinguisher bottles and fire extinguishing system is to store and discharge extinguishing agent into Engine Fire Zone 1, only on command.



- Discharge pipes leading to twin nozzles.

The fire bottles are mounted outside the fire zone, inside the nacelle inlet compartment. Access to the bottles is via an access panel in the inlet, through the exterior skin at the 6 o'clock position. Discharge is achieved when the pilot operates the fire handle sending an electrical signal to the cartridge mounted in the bottle discharge outlet. This causes the cartridge to detonate, which fractures a rupture disc and releases extinguishing agent to extinguish the fire. On discharge the extinguishing agent is passed through the Double Check Tee/Shuttle Valve through the discharge pipes/nozzles and into Fire Zone 1.

Low bottle pressure is indicated directly to the cockpit instrument panel when the pressure falls below that necessary for successful discharge.


NOTE: ATA/RTA members must perform Hydrostatic testing every 14 years. Non-ATA/RTA members who fly in the USA must perform Hydrostatic testing every 5 years. Maximum service life on Rupture Disc is 14 years and must be renewed at hydrostatic testing by ATA/RTA members. Maximum life of Fill Fitting (with Burst Discs) is 14 years and must be replaced at every refill operation.

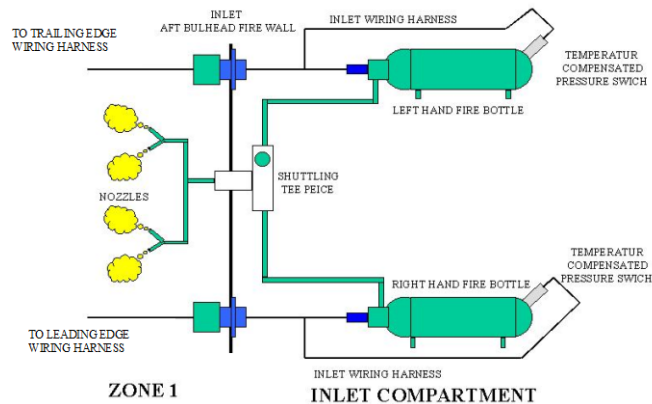
SYSTEM DESCRIPTION

The engine fire extinguishing system is a two shot, self-contained system, which is contained wholly within each engine nacelle and is operated from the cockpit. Each system is mounted on the engine nacelle inlet aft bulkhead, apart from the wiring harness, and consists of the following components:

- Two Fire bottle assemblies.
- Double Check Tee piece/Shuttle Valve.

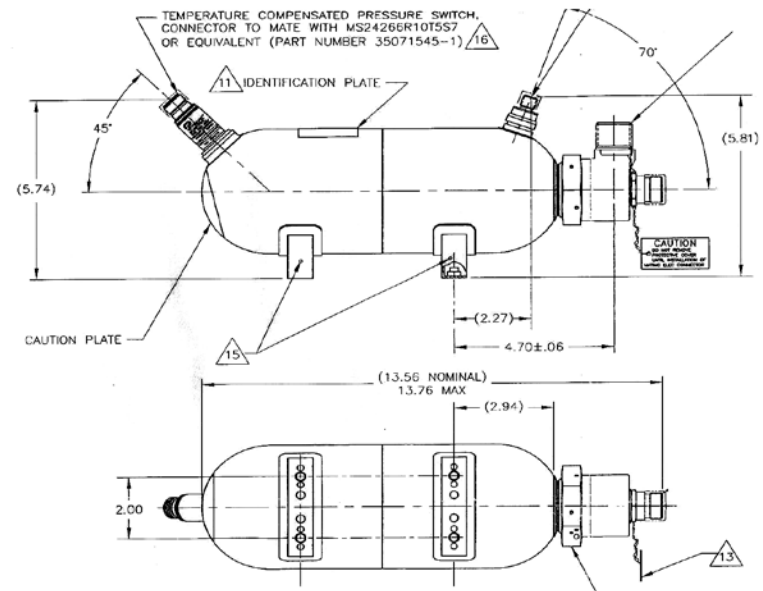
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FIREX SYSTEM SCHEMATIC

FIRE BOTTLE




The extinguisher bottles are 110 cubic inch, single outlet, hermetically sealed, stainless steel containers. The containers are of welded stainless steel construction, which includes mounting lugs and fill discharge and switch bosses. Its primary components include:

- Container weldment.
- Fill fitting.
- Rupture disc.
- Discharge outlet.
- Temperature Compensated Pressure switch (TCPS).
- Explosive cartridge.

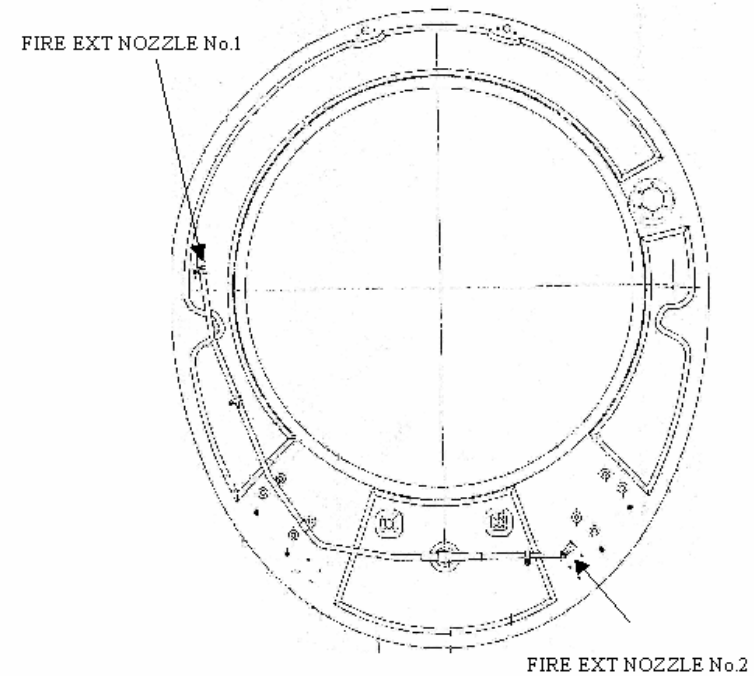
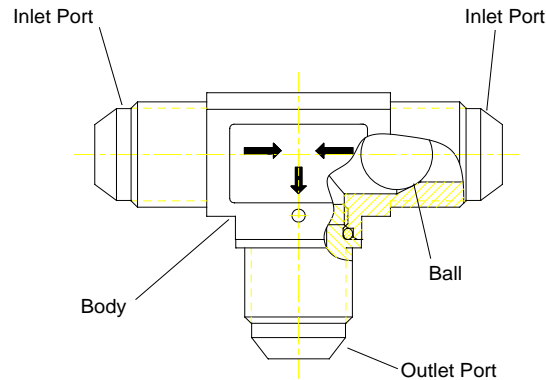
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		SFD	

DOUBLE CHECK TEE

The Double Check Tee/Shuttle Valve is an aluminum-bodied valve with stainless steel MS coupling nuts. The valve has two inlet ports and one outlet port. The valve diverts the flow from either the first or second shot extinguisher to the outlet port as a result of the extinguisher pressure moving an internal, free moving ball to seal the opposite inlet port.



**VIEW ON REAR BULKHEAD OF INLET
AFT LOOKING FORWARD**

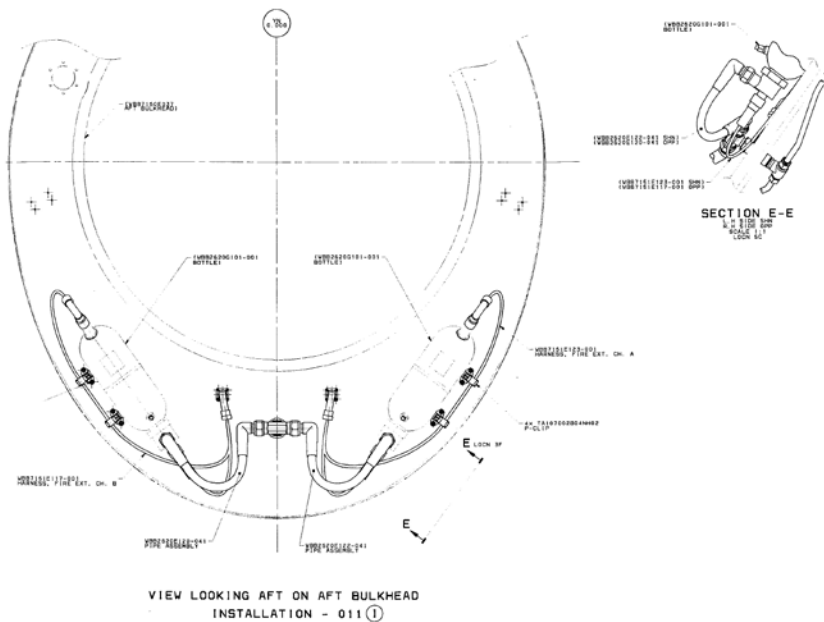
PLUMBING

Pipework and nozzle assemblies for the fire extinguishing system from the check tee to the discharge nozzles are manufactured from .5" diameter stainless steel tube, with a 0.75 inch diameter section between the fire extinguisher bottles and the check tee.

The discharge pipe and nozzle assemblies are mounted on the rear face of the engine nacelle inlet aft bulkhead with the two twin head nozzles mounted at roughly 5 and 9 o'clock positions.

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FORM: 1
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26-21-00

MSI Description
Engine Fire Extinguishing

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ACME


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Sample

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		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)		
		COMPONENT - MAINTAINABILITY AND RELIABILITY DATA		
FORM: 2	MSI NO. 26-21-00	MSI Description Engine Fire Extinguishing		

Component Number	Description	Qty	Supplier	Part Number Manufacturer/ Supplier	Similar To	Historical MTBF/ MTBUR	Predicted MTBF/ MTBUR	MMEL
26-21-00	Engine Fire Extinguishing	4	RS Aerospace	None	Various	- / -	- / 144000	
26-21-10	Fire Extinguisher bottle assembly.	8	MSTR Scientific	AC2620G103	Various	- / 190476	- / -	
26-21-20	Double Check Tee	4	MSTR Scientific	35201020	Various	- / -	- / 800000	
26-21-30	Discharge Pipe LH	4	RS Aerospace	AC2620G105	Various	- / 90000000	- / -	
26-21-40	Discharge Pipe RH	4	RS Aerospace	AC2620G104	Various	- / 90000000	- / -	
26-21-50	Pipe Assembly L/H with permaswage fittings	4	RS Aerospace	AC2620E120	New	- / -	- / 9000000	
26-21-60	Pipe Assembly R/H with permaswage fittings	4	RS Aerospace	AC2620E122	New	- / -	- / 9000000	

References:

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FORM: 3	MSI NO. 26-21-00	MSI Description Engine Fire Extinguishing
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FUNCTION	FUNCTIONAL FAILURE	FAILURE EFFECT	FAILURE CAUSE
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1	Store extinguishing agent under pressure.	A	Fails to maintain full quantity of agent at correct pressure.	1	Insufficient agent available in the Fire Extinguisher bottle for effective discharge.				
								a	Leakage from Fire Extinguisher bottle assembly.
								b	Uncommanded firing.
2	Release extinguishing agent on command.	A	Fails to release agent on command from primary fire extinguisher.	1	No, or insufficient, agent available for discharge. Secondary fire extinguisher must be used				
								a	Cartridge failure.
								b	Failure of fire extinguishing electrical harness.
		B	Fails to release agent on command from secondary fire extinguisher.	1	Loss of fire extinguisher redundancy.				
								a	Cartridge failure.
								b	Failure of fire extinguishing electrical harness.
3	Distribute extinguishing agent to fire hazard area.	A	Fails to distribute agent to fire hazard area.	1	No, or insufficient agent, available				

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FORM: 3	MSI NO. 26-21-00	MSI Description Engine Fire Extinguishing
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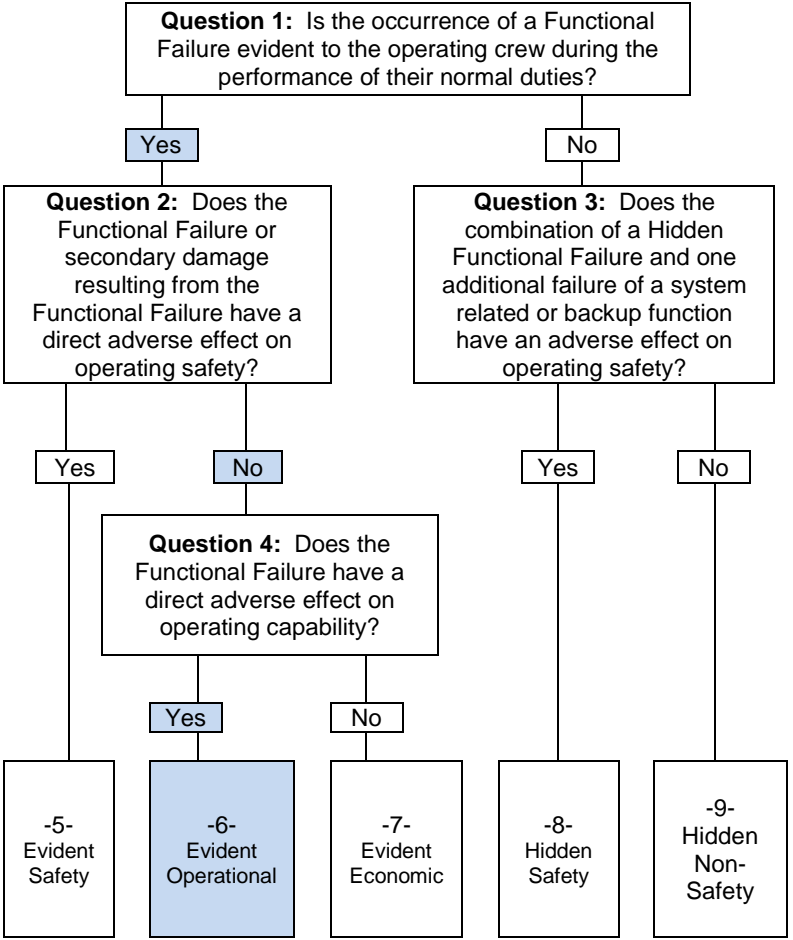
FUNCTION	FUNCTIONAL FAILURE	FAILURE EFFECT	FAILURE CAUSE
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		in fire hazard area.	
			a Damaged Fire Extinguisher bottle assembly.
			b Two Way Check Tee and associated plumbing, leakage.
			c Misaligned, damaged or blocked distribution pipe.
4	Provides low pressure indication, when a low pressure condition exists in the Fire Extinguisher bottle.		
	A Fails to indicate when Fire Extinguisher bottle low pressure exists.		
		1 No indication of low pressure in Fire Extinguisher bottle.	
			a Pressure switch hung in 'High Pressure' position.
			b Failure of fire extinguishing electrical harness.
	B False indication of low pressure in Fire Extinguisher container.		
		1 False indication of low pressure in Fire Extinguisher bottle.	
			a Pressure switch hung in 'Low Pressure' position.
			b Failure of fire extinguishing electrical harness.
5	Provides EMI & HIRF/L protection of Fire Extinguishing System.		
	A Fails to provide EMI, HIRF/L protection of Fire Extinguishing System.		
		1 Loss of EMI, HIRF/L protection for	

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		FUNCTIONAL FAILURE ANALYSIS		
FORM: 3	MSI NO. 26-21-00	MSI Description Engine Fire Extinguishing		
FUNCTION	FUNCTIONAL FAILURE	FAILURE EFFECT	FAILURE CAUSE	

		Fire Extinguisher system.	
	a		Damage or failure of electrical harness.

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		FAILURE EFFECT CATEGORY		
FORM: 4	MSI NO. 26-21-00	MSI	Engine Fire Extinguishing	
		Function	1	Store extinguishing agent under pressure.
		Failure	A	Fails to maintain full quantity of agent at correct pressure.
		Effect	1	Insufficient agent available in the Fire Extinguisher bottle for effective discharge.
FAILURE EFFECT QUESTIONS		QUESTION		ANSWER



1	Yes	Functional Failure will be evident to operating crew through instrument/warning panel indications.
2	No	No direct adverse effect on operating safety. Secondary Firex is available as a reserve.
3	N/A	Question 3 - Not Applicable
4	Yes	Unscheduled maintenance will be required
Category		EVIDENT OPERATIONAL
Remarks		MMEL

MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
FORM: 5-9		TASK SELECTION QUESTIONS					TSQ		
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	1	Store extinguishing agent under pressure.						
	Failure	A	Fails to maintain full quantity of agent at correct pressure.						
	Effect	1	Insufficient agent available in the Fire Extinguisher bottle for effective discharge.						
	Cause	a	Leakage from Fire Extinguisher bottle assembly.						
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?			X	Question is not applicable for Category 6
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?		X		Task is not applicable because the rate of reduction in failure resistance is not predictable.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?	X			Restoration through hydrostatic test and replacement of burst disc & fill valve is applicable and effective. Requirements to be complied in accordance with Operator national requirements.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 6


TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
205	RST		Remove Fire Bottles for Hydrostatic Test & Refurbishment.	6	Per Mfr Recommendation		ATA/RTA Members 14 Yrs, Non-ATA/RTA Members 5 Yrs, or per Operator's national requirements.	N/A

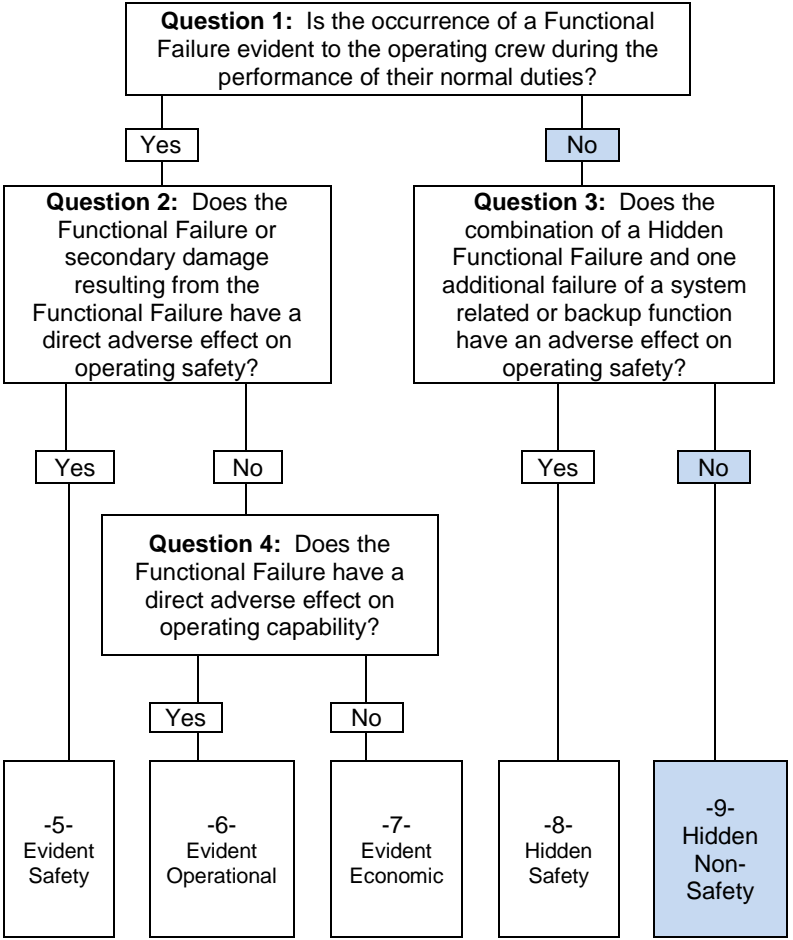
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FAILURE EFFECT CATEGORY	Function	1	Store extinguishing agent under pressure.										
	Failure	A	Fails to maintain full quantity of agent at correct pressure.										
	Effect	1	Insufficient agent available in the Fire Extinguisher bottle for effective discharge.										
	Cause	b	Uncommanded firing.										
5	6	7	8	9	TASK SELECTION QUESTIONS			Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)		
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?				X		Task is not applicable because there is no consumable to replenish.		
			B	B	Is a Check To Verify Operation Applicable and Effective?					X	Question is not applicable for Category 6		
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?			X			GVI for condition and security is applicable and effective.		
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.		
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.		
E			F		Is there a task or combination of tasks applicable and effective?					X	Question is not applicable for Category 6		

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
201	GVI		General Visual Inspection of Engine Fire Extinguishing System Wiring Harness Assembly.	6	2000 FHr		Inspect for chafing, damage, security, loose connectors and evidence of contamination or corrosion.	No

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		FAILURE EFFECT CATEGORY			FEC
FORM: 4	MSI NO. 26-21-00	MSI	Engine Fire Extinguishing		
		Function	2	Release extinguishing agent on command.	
		Failure	A	Fails to release agent on command from primary fire extinguisher.	
		Effect	1	No, or insufficient, agent available for discharge. Secondary fire extinguisher must be used	
FAILURE EFFECT QUESTIONS		QUESTION		ANSWER	



1	No	Hidden Functional Failure will not be evident to operating crew.
2	N/A	Question 2 - Not Applicable
3	No	Hidden Functional Failure of primary fire in combination with engine fire will not have an adverse effect on operating safety. Additional failure of secondary fire is required to effect safety.
4	N/A	Question 4 Not Applicable
Category		HIDDEN NON-SAFETY
Remarks		MMEL

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FORM: 5-9		TASK SELECTION QUESTIONS					TSQ		
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	2	Release extinguishing agent on command.						
	Failure	A	Fails to release agent on command from primary fire extinguisher.						
	Effect	1	No, or insufficient, agent available for discharge. Secondary fire extinguisher must be used						
	Cause	a	Cartridge failure.						
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?		X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?		X		Task is not applicable because the rate of reduction in failure resistance is not predictable.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?	X			Component is Life Limited, a discard task is applicable and effective.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 9

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
202	DIS		Discard Fire Extinguisher Cartridge.	9	10 Yr		Per manufacturer life limit recommendations.	N/A

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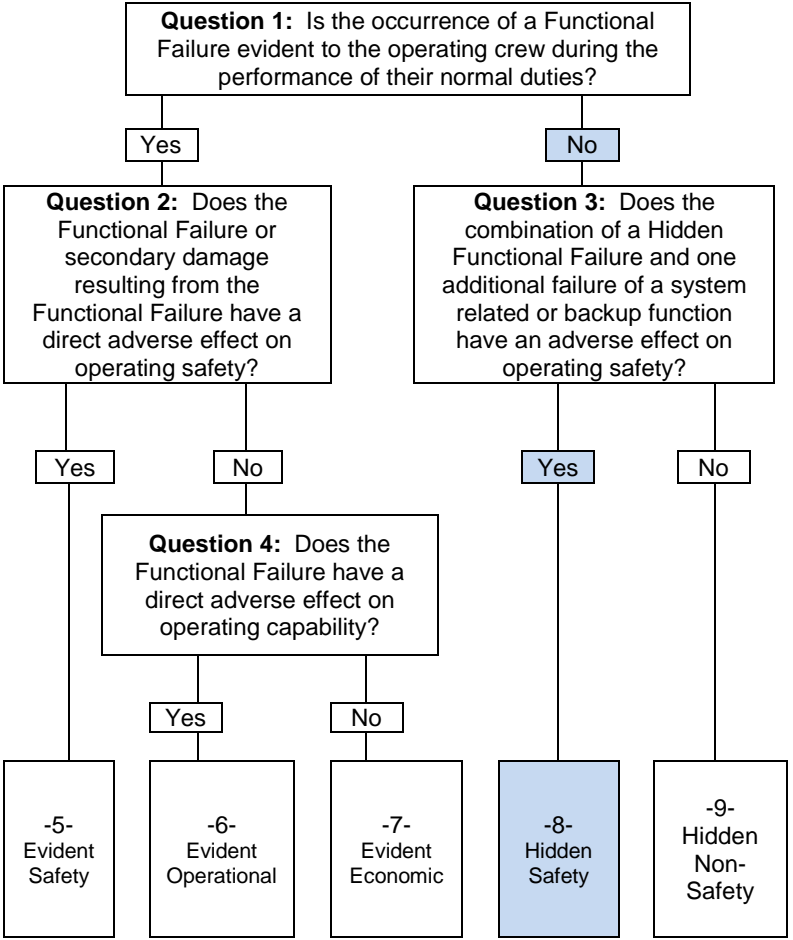
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MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	2		Release extinguishing agent on command.					
	Failure	A		Fails to release agent on command from primary fire extinguisher.					
	Effect	1		No, or insufficient, agent available for discharge. Secondary fire extinguisher must be used					
	Cause	b		Failure of fire extinguishing electrical harness.					
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?		X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?	X			GVI for condition and security is applicable and effective.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 9

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
201	GVI		General Visual Inspection of Engine Fire Extinguishing System Wiring Harness Assembly.	9	2000 FHr		Inspect for chafing, damage, security, loose connectors and evidence of contamination or corrosion.	No

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		FAILURE EFFECT CATEGORY		
FORM: 4	MSI NO. 26-21-00	MSI	Engine Fire Extinguishing	
		Function	2	Release extinguishing agent on command.
		Failure	B	Fails to release agent on command from secondary fire extinguisher.
		Effect	1	Loss of fire extinguisher redundancy.
FAILURE EFFECT QUESTIONS		QUESTION		ANSWER



1	No	Hidden Functional Failure will not be evident to operating crew.
2	N/A	Question 2 - Not Applicable
3	Yes	Hidden Functional Failure in combination with an engine fire may have an adverse effect on operating safety.
4	N/A	Question 4 - Not Applicable
Category		HIDDEN SAFETY
Remarks		MMEL

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FORM: 5-9		TASK SELECTION QUESTIONS					TSQ		
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	2	Release extinguishing agent on command.						
	Failure	B	Fails to release agent on command from secondary fire extinguisher.						
	Effect	1	Loss of fire extinguisher redundancy.						
	Cause	a	Cartridge failure.						
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?		X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?		X		Task is not applicable because the rate of reduction in failure resistance is not predictable.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?	X			Component is Life Limited, a discard task is applicable and effective.
E			F		Is there a task or combination of tasks applicable and effective?	X			Component is Life Limited, a discard task is applicable and effective.

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
202	DIS		Discard Fire Extinguisher Cartridge.	8	10 Yr		Per manufacturer life limit recommendations.	N/A


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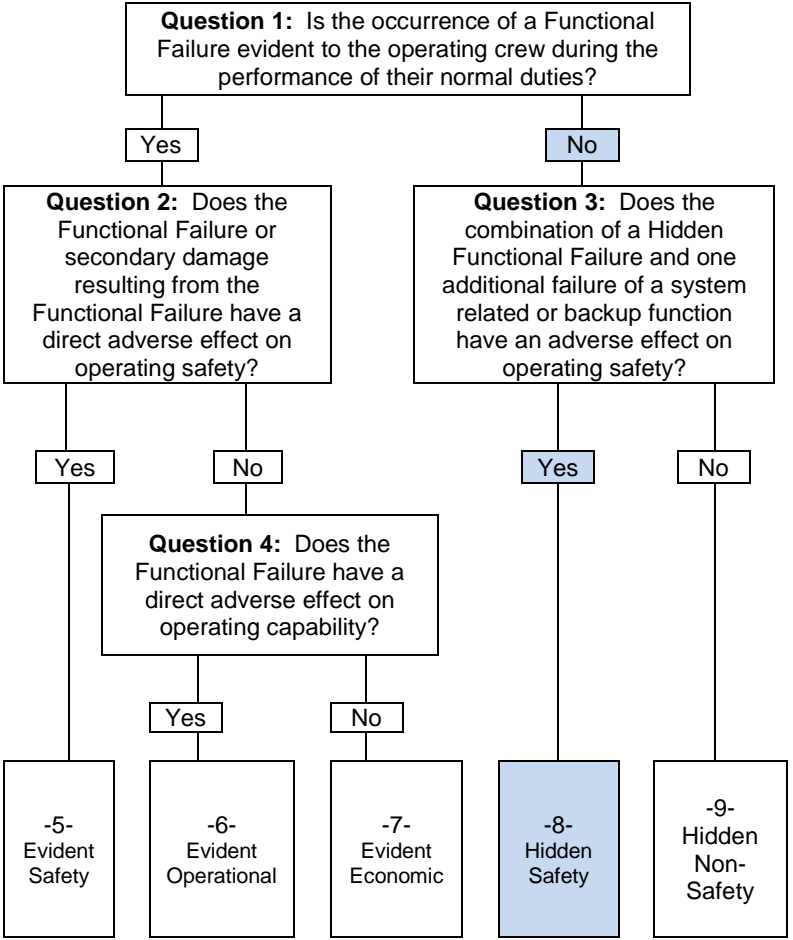
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MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing										
FAILURE EFFECT CATEGORY	Function	2	Release extinguishing agent on command.									
	Failure	B	Fails to release agent on command from secondary fire extinguisher.									
	Effect	1	Loss of fire extinguisher redundancy.									
	Cause	b	Failure of fire extinguishing electrical harness.									
5	6	7	8	9	TASK SELECTION QUESTIONS			Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)	
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?				X		Task is not applicable because there is no consumable to replenish.	
			B	B	Is a Check To Verify Operation Applicable and Effective?				X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.	
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?			X			GVI for condition and security is applicable and effective.	
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.	
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.	
E			F		Is there a task or combination of tasks applicable and effective?			X			GVI for condition and security is applicable and effective.	

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
201	GVI		General Visual Inspection of Engine Fire Extinguishing System Wiring Harness Assembly.	8	2000 FHr		Inspect for chafing, damage, security, loose connectors and evidence of contamination or corrosion.	N/A

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		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)		
		FAILURE EFFECT CATEGORY		
FORM: 4	MSI NO. 26-21-00	MSI	Engine Fire Extinguishing	
		Function	3	Distribute extinguishing agent to fire hazard area.
		Failure	A	Fails to distribute agent to fire hazard area.
		Effect	1	No, or insufficient agent, available in fire hazard area.
FAILURE EFFECT QUESTIONS		QUESTION		ANSWER



1	No	Hidden Functional Failure will not be evident to operating crew.
2	N/A	Question 2 - Not Applicable
3	Yes	Hidden Functional Failure in combination with an engine fire may have an adverse effect on operating safety.
4	N/A	Question 4 - Not Applicable
Category		HIDDEN SAFETY
Remarks		MMEL

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MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
FORM: 5-9		TASK SELECTION QUESTIONS					TSQ		
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	3		Distribute extinguishing agent to fire hazard area.					
	Failure	A		Fails to distribute agent to fire hazard area.					
	Effect	1		No, or insufficient agent, available in fire hazard area.					
	Cause	a		Damaged Fire Extinguisher bottle assembly.					
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?		X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?	X			GVI for condition and security is applicable and effective.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?	X			Restoration through hydrostatic test and replacement of burst disc & fill valve is applicable and effective. Requirements to be complied in accordance with Operator national requirements.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?	X			GVI and a Restoration Task are applicable and effective.

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
204	GVI		General Visual Inspection of Engine Fire Extinguishing System.	8	4000 FHr		Inspect fire bottle, pipes and mounting structure for condition and security.	N/A
205	RST		Remove Fire Bottles for Hydrostatic Test & Refurbishment.	8	Per Mfr Recommendation		ATA/RTA Members 14 Yrs, Non-ATA/RTA Members 5 Yrs, or per Operator's national requirements.	N/A

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MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)										
FORM: 5-9		TASK SELECTION QUESTIONS					TSQ					
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing										
FAILURE EFFECT CATEGORY	Function	3		Distribute extinguishing agent to fire hazard area.								
	Failure	A		Fails to distribute agent to fire hazard area.								
	Effect	1		No, or insufficient agent, available in fire hazard area.								
	Cause	b		Two Way Check Tee and associated plumbing, leakage.								
5	6	7	8	9	TASK SELECTION QUESTIONS			Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)	
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?				X		Task is not applicable because there is no consumable to replenish.	
			B	B	Is a Check To Verify Operation Applicable and Effective?			X			An operational check to verify operation is applicable and effective.	
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?			X			GVI for condition and security is applicable and effective.	
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.	
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.	
E			F		Is there a task or combination of tasks applicable and effective?			X			Periodic Op Ck and GVI are applicable and effective.	

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
203	OPC		Operational Check of Fire Extinguisher Distribution System.	8	10 Yr		Check of Fire extinguisher distribution system using shop air.	N/A
204	GVI		General Visual Inspection of Engine Fire Extinguishing System.	8	4000 FHr		Inspect fire bottle, pipes and mounting structure for condition and security.	N/A


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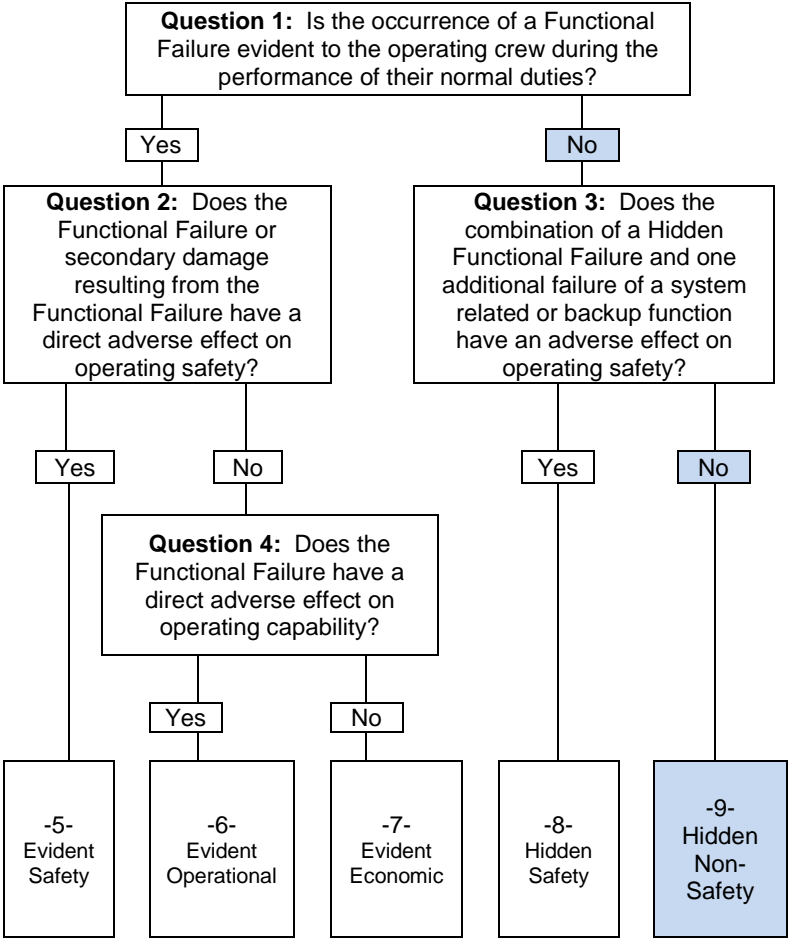
MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)										
FORM: 5-9		TASK SELECTION QUESTIONS					TSQ					
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing										
FAILURE EFFECT CATEGORY	Function	3	Distribute extinguishing agent to fire hazard area.									
	Failure	A	Fails to distribute agent to fire hazard area.									
	Effect	1	No, or insufficient agent, available in fire hazard area.									
	Cause	c	Misaligned, damaged or blocked distribution pipe.									
5	6	7	8	9	TASK SELECTION QUESTIONS			Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)	
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?				X		Task is not applicable because there is no consumable to replenish.	
			B	B	Is a Check To Verify Operation Applicable and Effective?			X			An operational check to verify operation is applicable and effective.	
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?			X			GVI for condition and security is applicable and effective.	
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.	
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?				X		Task is not applicable because item does not show degradation at an identifiable age.	
E			F		Is there a task or combination of tasks applicable and effective?			X			Periodic Op Ck and GVI are applicable and effective.	

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
203	OPC		Operational Check of Fire Extinguisher Distribution System.	8	10 Yr		Check of Fire extinguisher distribution system using shop air.	N/A
204	GVI		General Visual Inspection of Engine Fire Extinguishing System.	8	4000 FHr		Inspect fire bottle, pipes and mounting structure for condition and security.	N/A

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		FAILURE EFFECT CATEGORY		
FORM: 4	MSI NO. 26-21-00	MSI	Engine Fire Extinguishing	
		Function	4	Provides low pressure indication, when a low pressure condition exists in the Fire Extinguisher bottle.
		Failure	A	Fails to indicate when Fire Extinguisher bottle low pressure exists.
		Effect	1	No indication of low pressure in Fire Extinguisher bottle.
FAILURE EFFECT QUESTIONS		QUESTION		ANSWER



1	No	No, failure will not be evident to operating crew.
2	N/A	Question 2 - Not Applicable
3	No	Hidden Functional Failure of primary firex in combination with engine fire will not have an adverse effect on operating safety. Additional failure of secondary firex is required to effect safety.
4	N/A	Question 4 Not Applicable
Category		HIDDEN NON-SAFETY
Remarks		MMEL

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MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
		TASK SELECTION QUESTIONS						TSQ	
FORM: 5-9		MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing					
FAILURE EFFECT CATEGORY	Function	4		Provides low pressure indication, when a low pressure condition exists in the Fire Extinguisher bottle.					
	Failure	A		Fails to indicate when Fire Extinguisher bottle low pressure exists.					
	Effect	1		No indication of low pressure in Fire Extinguisher bottle.					
	Cause	a		Pressure switch hung in 'High Pressure' position.					
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?		X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?		X		Task is not applicable because the rate of reduction in failure resistance is not predictable.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 9

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
000	NTS		No Task Selected	9	-			N/A


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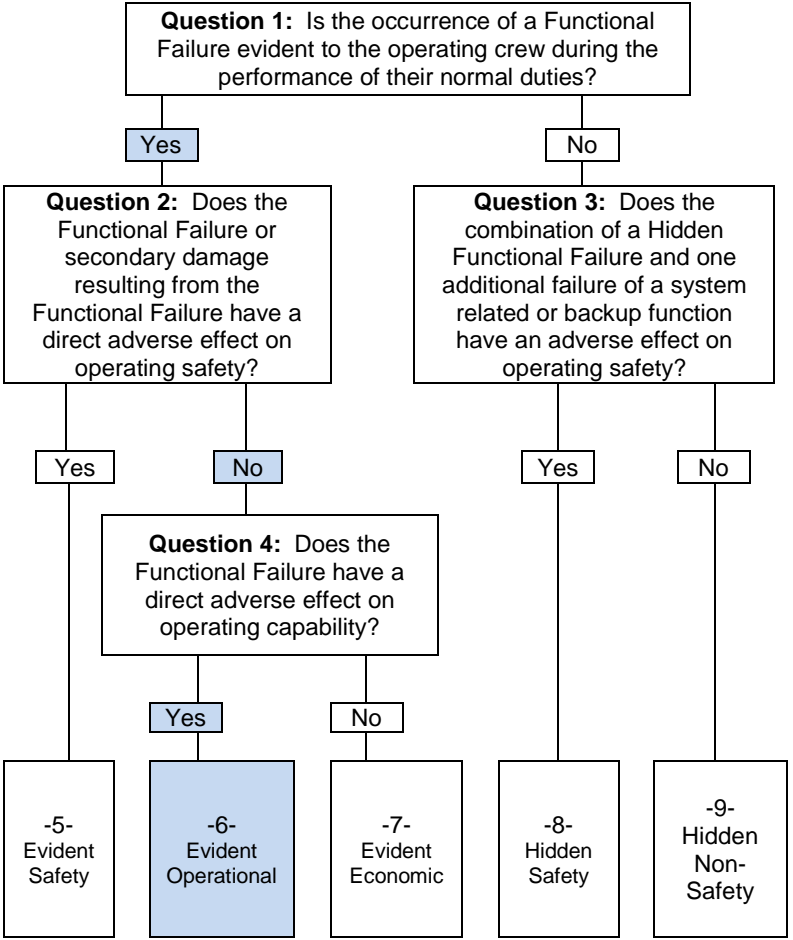
MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
FORM: 5-9		TASK SELECTION QUESTIONS					TSQ		
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	4	Provides low pressure indication, when a low pressure condition exists in the Fire Extinguisher bottle.						
	Failure	A	Fails to indicate when Fire Extinguisher bottle low pressure exists.						
	Effect	1	No indication of low pressure in Fire Extinguisher bottle.						
	Cause	b	Failure of fire extinguishing electrical harness.						
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?		X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?	X			GVI for condition and security is applicable and effective.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 9

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
201	GVI		General Visual Inspection of Engine Fire Extinguishing System Wiring Harness Assembly.	9	2000 FHr		Inspect for chafing, damage, security, loose connectors and evidence of contamination or corrosion.	No


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		FAILURE EFFECT CATEGORY		
FORM: 4	MSI NO. 26-21-00	MSI	Engine Fire Extinguishing	
		Function	4	Provides low pressure indication, when a low pressure condition exists in the Fire Extinguisher bottle.
		Failure	B	False indication of low pressure in Fire Extinguisher container.
		Effect	1	False indication of low pressure in Fire Extinguisher bottle.
FAILURE EFFECT QUESTIONS		QUESTION		ANSWER



1	Yes	Functional Failure will be evident to operating crew through instrument/warning panel indications.
2	No	No direct adverse effect on operating safety, redundancy in system, second bottle available.
3	N/A	Question 3 - Not Applicable
4	Yes	Unscheduled maintenance will be required
Category		EVIDENT OPERATIONAL
Remarks		MMEL

 MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
		TASK SELECTION QUESTIONS							
FORM: 5-9		MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing					
FAILURE EFFECT CATEGORY		Function		4		Provides low pressure indication, when a low pressure condition exists in the Fire Extinguisher bottle.			
		Failure		B		False indication of low pressure in Fire Extinguisher container.			
		Effect		1		False indication of low pressure in Fire Extinguisher bottle.			
		Cause		a		Pressure switch hung in 'Low Pressure' position.			
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?			X	Question is not applicable for Category 6
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?		X		Task is not applicable because the rate of reduction in failure resistance is not predictable.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 6

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
000	NTS		No Task Selected	6	-			N/A

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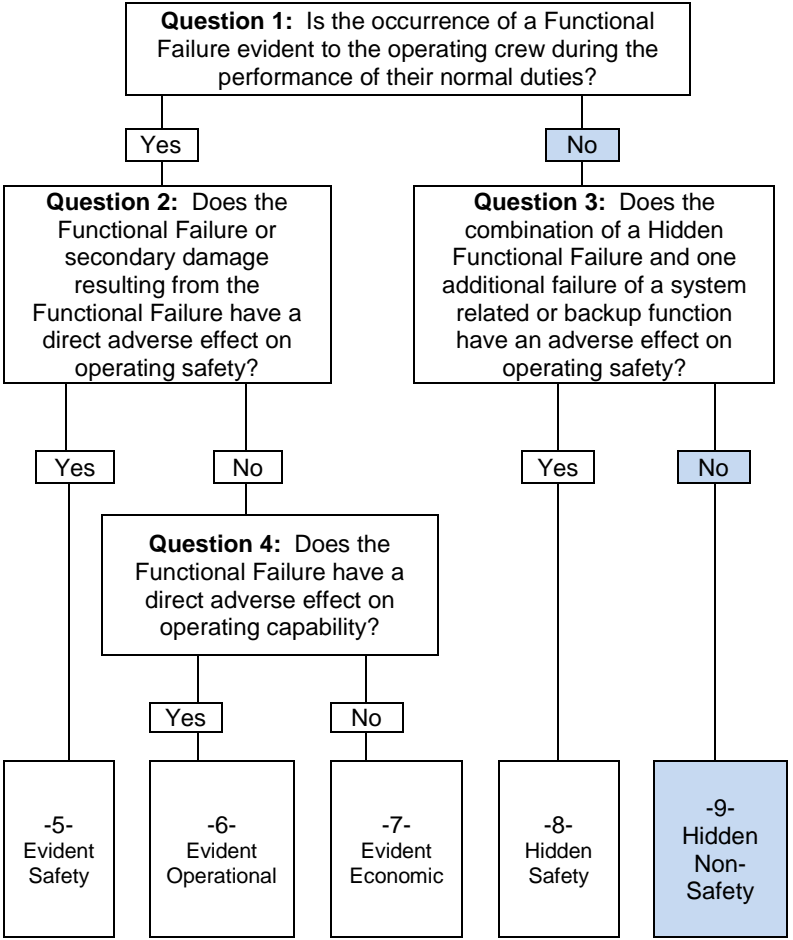
MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
FORM: 5-9		TASK SELECTION QUESTIONS					TSQ		
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	4	Provides low pressure indication, when a low pressure condition exists in the Fire Extinguisher bottle.						
	Failure	B	False indication of low pressure in Fire Extinguisher container.						
	Effect	1	False indication of low pressure in Fire Extinguisher bottle.						
	Cause	b	Failure of fire extinguishing electrical harness.						
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?			X	Question is not applicable for Category 6
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?	X			GVI for condition and security is applicable and effective.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 6

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
201	GVI		General Visual Inspection of Engine Fire Extinguishing System Wiring Harness Assembly.	6	2000 FHr		Inspect for chafing, damage, security, loose connectors and evidence of contamination or corrosion.	No

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		FAILURE EFFECT CATEGORY		
FORM: 4	MSI NO. 26-21-00	MSI	Engine Fire Extinguishing	
		Function	5	Provides EMI & HIRF/L protection of Fire Extinguishing System.
		Failure	A	Fails to provide EMI, HIRF/L protection of Fire Extinguishing System.
		Effect	1	Loss of EMI, HIRF/L protection for Fire Extinguisher system.
FAILURE EFFECT QUESTIONS		QUESTION		ANSWER



1	No	Hidden Functional Failure will not be evident to operating crew.
2	N/A	Question 2 - Not Applicable
3	No	Hidden Functional Failure in combination with EMI occurrence will not have an adverse effect on safety.
4	N/A	Question 4 - Not Applicable
Category		HIDDEN NON-SAFETY
Remarks		MMEL

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MP MPC		MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
FORM: 5-9		TASK SELECTION QUESTIONS					TSQ		
MSI NO. 26-21-00		MSI Description Engine Fire Extinguishing							
FAILURE EFFECT CATEGORY	Function	5	Provides EMI & HIRF/L protection of Fire Extinguishing System.						
	Failure	A	Fails to provide EMI, HIRF/L protection of Fire Extinguishing System.						
	Effect	1	Loss of EMI, HIRF/L protection for Fire Extinguisher system.						
	Cause	a	Damage or failure of electrical harness.						
5	6	7	8	9	TASK SELECTION QUESTIONS	Yes	No	N/A	Answer & Explanation (Based on Applicability & Effectiveness Criteria)
A	A	A	A	A	Is a lubrication or servicing task applicable and effective?		X		Task is not applicable because there is no consumable to replenish.
			B	B	Is a Check To Verify Operation Applicable and Effective?		X		Task is not cost-effective based on the cost of the task vs. the economic effects of possible multiple failures.
B	B	B	C	C	Is an inspection or functional check to detect degradation of function applicable and effective?	X			GVI for condition and security is applicable and effective.
C	C	C	D	D	Is a restoration task to reduce failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
D	D	D	E	E	Is a discard task to avoid failures or to reduce the failure rate applicable and effective?		X		Task is not applicable because item does not show degradation at an identifiable age.
E			F		Is there a task or combination of tasks applicable and effective?			X	Question is not applicable for Category 9

TASK NO.	TYPE	TASK TITLE	TASK DESCRIPTION	FEC	INTERVAL	EFFECTIVITY	REMARKS	ZONAL
201	GVI		General Visual Inspection of Engine Fire Extinguishing System Wiring Harness Assembly.	9	2000 FHr		Inspect for chafing, damage, security, loose connectors and evidence of contamination or corrosion.	No

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 MPC	MASTER FOR ACME AIRCRAFT, TURBOFAN 77 - MSG-3 SYSTEMS & POWERPLANT ANALYSIS (REVISION 2011.1)							
	MAINTENANCE TASK SUMMARY							

FORM: 10	MSI NO. 26-21-00	MSI Description Engine Fire Extinguishing							
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TASK NUMBER	TASK TYPE	TASK DESCRIPTION	INTERVAL	F-FF-FE-FC	FEC	ZONE	ACCESS	REMARKS
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262100-000	NTS	No Task Selected	-	4A1a	9			
				4B1a	6			
262100-201	GVI	General Visual Inspection of Engine Fire Extinguishing System Wiring Harness Assembly.	2000 FHr	1A1b	6			Inspect for chafing, damage, security, loose connectors and evidence of contamination or corrosion.
				2A1b	9			
				2B1b	8			
				4A1b	9			
				4B1b	6			
				5A1a	9			
262100-202	DIS	Discard Fire Extinguisher Cartridge.	10 Yr	2A1a	9			Per manufacturer life limit recommendations.
				2B1a	8			
262100-203	OPC	Operational Check of Fire Extinguisher Distribution System.	10 Yr	3A1b	8			Check of Fire extinguisher distribution system using shop air.
				3A1c	8			
262100-204	GVI	General Visual Inspection of Engine Fire Extinguishing System.	4000 FHr	3A1a	8			Inspect fire bottle, pipes and mounting structure for condition and security.
				3A1b	8			
				3A1c	8			
262100-205	RST	Remove Fire Bottles for Hydrostatic Test & Refurbishment.	Per Mfr Recommendation	1A1a	6			ATA/RTA Members 14 Yrs, Non-ATA/RTA Members 5 Yrs, or per Operator's national requirements.
				3A1a	8			

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