

## PROCESS FAILURE MODE AND EFFECTS ANALYSIS

EXAMPLE

PAGE:   1   OF   1  

SUPPLIER: JOHN DOE INDUSTRIES  
 PART NAME: FUEL FILLER ASSEMBLY  
 PART NO: XXXXX - 00000  
 PFMEA NO: 012

MANUFACTURING  
 LOCATION: SPRINGFIELD, KY.  
 MODEL: 111X  
 PREPARED BY: JOHN DOE, JR.

**REVISION RECORD**

ISSUE	DETAIL	DATE	AUTH
0	INITIAL RELEASE	7/1/01	J.D.Jr.

CORE TEAM: \_\_\_\_\_

PROCESS FUNCTION REQUIREMENTS	POTENTIAL FAILURE MODE	POTENTIAL EFFECT(S) OF FAILURE	S	CLASS	POTENTIAL CAUSE(S) MECHANISM(S) OF FAILURE	O	CURRENT PROCESS CONTROLS	D	RPN	RECOMMENDED ACTION	RESPONSIBILITY & TARGET COMPLETION DATE	ACTION RESULTS				
												ACTIONS TAKEN	S	O	D	RPN
SOLDER VENT TUBE TO MAIN FILL TUBE	INCOMPLETE SEAL	FUEL LEAK / SAFETY ISSUE	10		INSUFFICIENT AMOUNT OF SOLDER	3	SHOT SIZE WEIGHED AT START UP (100% LEAK TEST AFTER FINAL ASSEMBLY)	5	150	* Install a new solder applicator * Inspect hourly / Monitor with individuals and moving range charts * Increase pressure of the leak tester from 10kPa to 30kPa	*Engineering by 9/17/01	ALL	10	1	1	10
	TUBE INSERTION TOO SHALLOW	FUEL LEAK / SAFETY ISSUE	10	[Pc]	CLAMP WORN	3	CHECK 1st AND LAST PIECE PER SHIFT	5	150	* Increase check to 1 piece per hour / Monitor with individual & moving range charts * Revise equipment maintenance schedule from 1 / 4 weeks to 1 / 2 weeks	* QC by 9/30/01  * MAINTENANCE by 9/16/01	ALL	10	1	2	20

LEGEND: S = SEVERITY, CLASS = [Pc], C S E R  
 O = OCCURRENCE  
 D = DETECTION  
 RPN = RISK PRIORITY NUMBER - O and S: (1) = LOW / (10) = HIGH  
 D = 1 - 10 (10 = REMOTE POSSIBILITY OF DETECTION)

**APPENDIX 9A - PFMEA**  
 CONTROL #TM-QA-FM-06-339  
 REVISION - 07/09/01

ROUTING: SUPPLIER  $\longrightarrow$  TMI QC