

Non-conformance: 19289 Customer: PRINCETON PLASMA PHYSICS LAB		Occurred: 02/20/06 Identified By: 791-D.WEIDNER Reported: 02/20/06 By: 791-D.WEIDNER Part: /		
Serial Number:	FRINCETON FLASMA FITTSICS LAD	Drawing ID: SE120-003	Rev 0	
	1-Type:W: 65678/2.0 Sub: 119 Op: 10	Vendor:	Kev 0	
	PORT NB HAS DEFORMATION TO HOLE PATTERN AFTER WELDING HAS BEEN COMPLETED ON PORT 4 A/B AND 12 A/B HOLES DO NOT ALIGN TO MATING THREADED HOLE IN NB COVER. HOLES DID ALIGN AFTER NB			
Tiobiciii.				
	WAS WELDED IN,BUT DO NOT NOW THAT			
Where Detecte	708-RANDOM FINDING - ANY EMPLOYE			
	1-STANDARD	Target Dim: 0.5320	Max Dev:0.0100	
		Reference:		
Last Edited:	02/20/06 By: 791-D.WEIDNER	Document:		
Disposition:	913-CUSTOMER - REPAIR	Due: 03/03/06 By: 775-	-D.MCCORKLE	
Submitted Doc:		Completed: 03/03/06 By: 775-D.MCCORKLE		
	03/06/06 By: 840-G.MASOOD	Approval Due: 02/21/06 By: 927-M.MANUEL		
	2	Approved: 03/03/06 By: 927-		
Rework:				
		Inspected: 04/25/06 By: 840-	-G.MASOOD	
Instructions:	CUSTOMER DISPOSITION REQUIRED.			
	THE FLANGE IS ALSO OUT OF FLAT UP TO 1/16".			
	UNIT # 1 HOLES WERE OPENED UP TO 5/8" DIAMETER TO PROVIDE THE NECESSARY CLEARANCE			
	FOR ASSEMBLY PRIOR TO VACUUM TESTING. THE EXTRA WELDING ON UNIT # 1 WAS			
	SUSPECTED TO BE THE CAUSE OF THE EXCESS DISTORTION. THIS PROVED INCORRECT AFTER			
	UNIT # 2 FLANGE ALSO DISTORTED. UNIT # 3 HAS NOT BEEN INSTALLED YET, BUT IS EXPECTED			
	TO REACT THE SAME. MTM RECOMMENDS OPENING ALL NB FLANGE HOLES UP TO 5/8" AND			
	RE-FACING THE FLANGE FLAT AFTER ALL PORTS ARE WELDED IN PLACE (A MINIMUM			
	THICKNESS WILL BE NEEDED).			
Last Edited:	04/25/06 By: 840-G.MASOOD			
Root Cause / Corrective Action		Due: 02/27/06 By: 775-	-D.MCCORKLE	
		Completed: 03/03/06 By: 775-	-D.MCCORKLE	
Root Cause 1:	819-PROCESS DEVELOPMENT			
	715-SILVER TEAM, ENGINEERING	Approval Due: 03/06/06 By: 927-	-M.MANUEL	
Equipment:	,	Approved: 03/03/06 By: 927-		
1 1	775-D.MCCORKLE			
	THE WELDING OF THE PORT 4s IS SUSPECT	ED TO BE THE PRIMARY CON	TRIBUTOR TO	
-	DISTORTING THE PORT NB FLANGE FACE. THE DISTORTION IS A RESULT OF INWARD WELD			
	SHRINKAGE FROM WELDING THE PORT 4s	SHRINKAGE FROM WELDING THE PORT 4s IN PLACE. THE NB PORT ACTS AS A BRIDGE		
	ABSORBING THE DISTORTION. IN DOING SO, THE NB PORT FLEXES. THE ACTUAL CAUSE OF THE			
	FIRST UNIT WAS NOT DECIDED SINCE THE PORT NB WALL WAS ALSO RE-WELDED AFTER			
	MIS-LOCATING. THE TRUE ROOT CAUSE WAS DETERMINED AFTER SEEING THE SAME			
	DISTORTION ON THE FLANGE FACE. AFTER MUCH DELIBERATION, IT WAS DECIDED THAT THIS			
	IS CONSIDERED THE LESSER OF TWO EVILS AND THAT WELDING THE PORT NB IN PLACE AFTER			
	THE PORT 4s WOULD ALLOW THE VESSEL WALL TO DISTORT INWARD MUCH FURTHER THAN ORIGINALLY THOUGHT.			
Corr Actn: 1:		Correction Due 03/10/06 By: 775-	-D.MCCORKLE	
		Action: 03/03/06 By: 775-		
		Completed: 03/03/06		
Description:	THIS CONDITION WILL EXIST ON ALL THRI		R RE-MACHINING THE	
1	PORT NB FLANGE FACE. MTM WILL PROVI			



Verify Due: 03/10/06 By: 927-M.MANUEL Completed: 03/03/06 By: 927-M.MANUEL

Verify Notes: COMPLETE

RC Last Edited 03/03/06 By: 927-M.MANUEL CA Last Edited By:

## **Documents:** 1)

Last Edited: 05/17/06 By: 775-D.MCCORKLE

## **Closure:**

Comments: Last Edited: 05/17/06 By: 840-G.MASOOD Completed: 05/17/06 By: 840-G.MASOOD

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