QA Plan Summary NCSX Modular Coil Winding Form Machining

Spec Ref	Activity	Visual Mfg Ref.	Ref Procedure	Witness/Hold Point	Reporting/Documentation Req
Spec Kei	Manufacturing Planning- QA planning- Production Support	65707/5.0 -Sub:0 Op#:10	Rei Flocedule	Withess/Hold Point	Reporting/Documentation Req
	TINAL INSPECTIONPREPARE PART FOR SOURCE INSPECTIONReview and complete QA data package per QAP and the	0370773.0 -Sub.0 Op#.10			
	requirements of the product specification NCSX-CSPEC-141-03-11 January 13, 2006 Contact CFT to review data package prior to				
	industriente of and product opening and the off the off the industry to, 2000. Somat of the review and passage provide in off offer and the product of the review and passage provide in the review and passage provide interview and passage passage provide interview and passage passag	65707/5.0 -Sub:0 Op#:20			
	INCUMING CONTINUES INSPECTIONFINAL ACCEPTANCE OF PART AND DATA PACKAGEHAVE SOURCE INSPECTOR STAMP AND SIGN C	0010110.0 000.0 00#.20			
		65707/5.0 -Sub:0 Op#:30		Hold Point	
	PACKAGE AND SHIPBUILD A BOX/CRATE SUITABLE FOR PROTECTING THE PART FROM THE ENVIRONMENTWEIGH	0010110.0 000.0 00#.00		noid i oint	
	THE FINISHED PART AND METAL STAMP THE VALUE IN POUNDS ON THE CASTING IN THE AREA MARKED ON THE				
	CUSTOMER DRAWING PART MUST BE PROTECTED AND WRAPPED IN PLASTIC PRIOR TO INSERTING INTO THE CRATE.				
	REFER TO PS583PART IS TO BE SHIPPED TO PPPL IN PRINCETON- NJ PER QAP SHIPPING ADDRESSCRATE MUST BE				
51.53.54	MARKED/STENCILED PER THE MTM DRAWING	65707/5.0 -Sub:0 Op#:40	PS583		
0.1, 0.0, 0.1	RECEIVE CUSTOMER SUPPLIED MATERIALPart Number: SE141-116 Rev: 6Part Description: PRODUCTION WINDING FORM				
	TYPE-C	65707/5.0 -Sub:1 Op#:10			
	SETUP AND MACHINE THE FLANGE FACES AND FLANGE PERIPHERY TO WITHIN .100- STOCK.	65707/5.0 -Sub:1 Op#:18			
	SET CASTING ON RISERS WITH DATUM -E- FLANGE DOWN. ROUGH MACHINE OUTSIDE POLOIDAL BREAK FLANGES TO				
	WITHIN .030- OF FINISH. MACHINE POLOIDAL BREAK THROUGH THE FLANGES AND CASTING WALL TO 2.050- LEAVING THE T				
	SECTION TO BE CUT AT A LATER TIME.	65707/5.0 -Sub:1 Op#:20			
	USING TABS CUT FROM CUSTOMER SUPPLIED MATERIAL- WELD TEMPORARY SHIM IN PLACE. WELD TABS TO SHIM AND				
	TABS TO CASTING. (DO NOT WELD SHIM DIRECTLY TO CASTING)USE MACHINED QUALIFIERS TO HELP POSITION THE				
	SHIM.	65707/5.0 -Sub:1 Op#:25		1	
	SET UP FIXTURE PLATE MTMFX-3099 AND MACHINE LOCATING PADS AS NECESSARYSET UP CASTING WITH DATUM -E-		1		
	AGAINST THE FIXTURE MACHINE THE REMAINING PORTION OF THE POLOIDAL BREAK TO 2.050 FINISH MACHINE				
	DATUM -D- WING SURFACES AND ALL AREAS BELOW THE T SECTION MACHINE T SECTION TO WITHIN .030 FINISH				
	MACHINE DATUM -D- FLANGE	65707/5.0 -Sub:1 Op#:30			
	SET UP FIXTURE PLATE MTMFX-3100 AND MACHINE LOCATING PADS AS NECESSARYSET UP CASTING WITH DATUM -D-	· · · · · ·			
	AGAINST THE FIXTURE FINISH MACHINE DATUM -E- WING SURFACES AND ALL AREAS BELOW THE T SECTION				
	MACHINE T SECTION TO WITHIN .030 FINISH MACHINE DATUM -E- FLANGE	65707/5.0 -Sub:1 Op#:35			
	CD-1 (SETUP 1)SET UP MTMFX-3099 ON ANGLE PLATELOAD PART WITH DATUM -D- FLANGE UPVERIFY FLATNESS OF				
	DATUM -D- FACE AND RECORD RESULTS IN IDC (SEE LINKED DATUM -D- MAP)RECORD TOOLING BALL LOCATIONS IN IDC				
	COMPLETE ALL PROGRAMS FOR SETUP 1.	65707/5.0 -Sub:1 Op#:50			IDC: 18
	CD-2 (SETUP 2)SET CASTING ON RISERS WITH DATUM -D- FLANGE UPRECORD TOOLING BALL LOCATIONS IN IDC.				
	COMPLETE ALL PROGRAMS FOR SETUP 2.	65707/5.0 -Sub:1 Op#:55			IDC: 4
	CE-2 (SETUP 4)SET CASTING ON RISERS WITH DATUM -E- FLANGE UPRECORD TOOLING BALL LOCATIONS IN IDC				
	COMPLETE ALL PROGRAMS FOR SETUP 4.	65707/5.0 -Sub:1 Op#:60			IDC: 4
	CE-1 (SETUP 3)SET UP MTMFX-3100 ON ANGLE PLATELOAD PART WITH DATUM -E- FLANGE UPVERIFY FLATNESS OF				
	DATUM -E- FACE AND RECORD RESULTS ON IDC (SEE LINKED DATUM -E- MAP)RECORD TOOLING BALL LOCATIONS IN IDC				
	-COMPLETE ALL PROGRAMS FOR SETUP 3	65707/5.0 -Sub:1 Op#:70			IDC: 18
	POLOIDAL BREAK OPERATION (SETUP 5) INSTALL MTMFX-3099 ON RISERS TACK WELD FIXTURE TO RISER BLOCKS TO				
	PREVENT MOVEMENT LOAD PART ON FIXTURE WITH DATUM -D- FLANGE UP TACK WELD DATUM -E- FLANGE TO THE				
	FIXTURE ON EITHER SIDE OF THE POLOIDAL BREAK TACK WELD BRACING TO PREVENT MOVEMENT OF THE POLOIDAL				
	BREAK WHEN THE TEMPORARY SHIM IS REMOVED. TABS MADE FROM THE CASTING MATERIAL ARE TO BE WELDED TO				
	THE BRACING AND THEN THE TABS WELDED TO THE CASTING RECORD TOOLING BALL LOCATIONS IN IDC REMOVE				
	SHIM AND FINISH MACHINE POLOIDAL BREAK INSTALL DRILL FIXTURE AND COMPLETE GUN DRILLING OPERATION				
	COMPLETE ALL REMAINING PROGRAMS FOR SETUP 5 REMOVE THE DRILL FIXTURE AND INSTALL THE TWO TAPERED				
	PINS. PLACE ALUMINUM BLOCKS IN THE POLOIDAL BREAK AND CLAMP OVER THE BLOCKS TO MINIMIZE ANY MOVEMENT				
	DURING HANDLING VERIFY THAT QUALIFIERS HAVE BEEN CUT ON THE OUTER DIAMETERS OF THE -D- AND -E- FLANGES				
	ACROSS THE POLOIDAL BREAK. THIS WILL BE USED FOR ALIGNMENT DURING THE ASSEMBLY OPERATION CUT THE				
	TACKS AND BRACING LOOSE AND REMOVE THE PART FROM THE FIXTURE	65707/5.0 -Sub:1 Op#:80			IDC: 4
	PROTECT PART FROM METAL CONTAMINATION DUE TO CONTACT WITH IRON- SPECIFICALLY WHEN RIGGING PART FOR				
	MOVEMENTALL GRINDING WHEELS AND DISKS MUST BE VIRGIN MATERIAL NOT PREVIOUSLY USED ON ANY OTHER				
	MATERIAL TO AVOID MATERIAL CONTAMINATION FINISH HAND TAPPING OF 3/8-16 HOLES USING TAP GUIDE (IF				
	REQUIRED) START BLENDING T-SECTION HAND GRIND 1/16 CHAMFER ON ALL SPLIT LINE EDGES OF POLOIDAL BREAK				
	AND ON ALL THRU HOLES AT POLOIDAL BREAK HAND GRIND VPI GROOVE WHERE REQUIRED DEBURR WING AREAS				
	TO REMOVE ANY SHARPNESS FROM MACHINING (SCALLOPS DO NOT NEED TO BE REMOVED) CHECK ALL ACCESSIBLE T			1	
	CLEARANCES USING MTMFX-3473 CHECKING FIXTURE HAND GRIND 1/16 TO 3/32 CHAMFER ON OUTER EDGE OF T IN ALL				
3.1.1.4	ACCESSIBLE AREAS FINISH ALL OTHER REQUIRED DEBURRING ON DATUM -D- SIDE PRIOR TO MOVING PART TO PLANT 2				
4.2.6	FOR FLIPPING.	65707/5.0 -Sub:1 Op#:85			
	PROTECT PART FROM METAL CONTAMINATION DUE TO CONTACT WITH IRON- SPECIFICALLY WHEN RIGGING PART FOR				
	MOVEMENTALL GRINDING WHEELS AND DISKS MUST BE VIRGIN MATERIAL NOT PREVIOUSLY USED ON ANY OTHER				
	MATERIAL TO AVOID MATERIAL CONTAMINATION FLIP PART AND SET UP ON DATUM -D START BLENDING T SECTION-			1	
	DEBURR WING AREAS TO REMOVE ANY SHARPNESS FROM MACHINING (SCALLOPS DO NOT NEED TO BE REMOVED)			1	
	CHECK ALL ACCESSIBLE T CLEARANCES USING MTMFX-3473 CHECKING FIXTURE HAND GRIND 1/16 TO 3/32 CHAMFER ON				
					i i i i i i i i i i i i i i i i i i i
	OUTER EDGE OF T IN ALL ACCESSIBLE AREAS STAMP NUMBERS ON FACE OF T PER DRAWING. USE DRAWING SE141-116 2MTM REV 6A FOR STAMPING NUMBERS	65707/5.0 -Sub:1 Op#:88			



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Spec Ref	Activity	Visual Mfg Ref.	Ref Procedure	Witness/Hold Point	Reporting/Documentation Req
	PROTECT PART FROM METAL CONTAMINATION DUE TO CONTACT WITH IRON-SPECIFICALLY WHEN RIGGING PART FOR MOVEMENTMOVE PART INTO WASH BOOTHTHOROUGHLY CLEAN AND DRY ALL SURFACES AND HOLES PER SECTION 9 OF PS583PARTS TO BE WASHED USING HEATED- DE-MINERALIZED WATER- AND IF NECESSARY- A MILD NON- CHLORINATED CLEANING SOLUTION (E.G. SIMPLE GREEN®- OR AUTHORIZED EQUIVALENT)- USING MTM'S HIGH PRESSURE WASHER. THE SPRAY PRESSURE AT THE NOZZLE WILL BE APPROXIMATELY 1-000 TO 1-500 PSI AND THE CLEANING SOLUTION TEMPERATURE WILL BE APPROXIMATELY 150"FHAVE INSPECTION VERIFY THE CLEANLINESS OF THE				
5.2	CASTING PRIOR TO REMOVING FROM THE WASH BOOTH	65707/5.0 -Sub:1 Op#:90	PS583		IDC: 1
4.2.7.1 4.2.7.2.2	PT 100% OF THE AS-CAST SURFACES AS WELL AS FINISHED MACHINE SURFACES. SEE PS582 FOR PROCESSING INSTRUCTIONSSPECIFICATION: ASTM A903/A903MMETHOD: ASTM E165ACCEPTANCE CRITERIA: ASTM A903/A903M LEVEL II FOR AS CAST SURFACESACCEPTANCE CRITERIA: ASTM A903/A903M LEVEL I FOR MACHINED SURFACES INCLUDING THE ENTIRE -T- SECTION (HIGH STRESS AREAS)CERTIFICATION: MTM CERTIFICATION TO INCLUDE THE INFORMATION PER SUPPLEMENTARY REQUIREMENTS \$1 OF ASTM A903/A903MMTM NDT Cert: LPI CERTIFICATION GOVERNMENT SOURCE INSPECTOR TO WITNESS PT RESULTS.	65707/5.0 -Sub:1 Op#:10(65707/5.0 -Sub:1 Op#:101			MTM NDT Cert
3.1.1.8	THE -T- AREAS DEFINED AS -HIGH STRESS- ARE TO BE RT 100%. SEE PS581 FOR PROCESS INSTRUCTIONSHAND SKETCH A LAYOUT OF ALL FILM LOCATIONS ON SHEET (1) OF THE CUSTOMER DRAWING SE141-116 TO MAINTAIN SHOT AND FILM TRACEABILITYALL FILM IS TO BE DOUBLED UP IN ORDER TO SUPPLY THE CUSTOMER WITH A COMPLETE SET OF FILMSPECIFICATIONS: ASTM A703/A703M SUPPLEMENTARY REQUIREMENT SSPROCEDURE/METHOD: ASTM E94 AND ASTM E142 (USE OF A WIRE PENETRAMETER MAY BE NECESSARY INSTEAD OF THE HOLE TYPE TO ENSURE OBJECTIVE 2% OF THICKNESS RESOLUTION/SENSITIVITY)ACCEPTANCE CRITERIA: NO DEFECT LARGER THAN. 080- MAJOR DIMENSION IS ALLOWEDSCAN RT CERTIFICATION- AND HAND SKETCHED MAP AND LINK IN QAP TO THIS OPERATIONORTIFICATION: ASTM E1709-THE CUSTOMER OF AWING Rev:Part Number: SE141-116 Rev: 7 Part Description: WINDING FORM TYPE-CMaterial Type: 316 STIMaterial Thickness: VARIES GOVERNMENT SOURCE INSPECTOR TO WITNESS RT RESULTS.	65707/5.0 -Sub:1 Op#:110 65707/5.0 -Sub:1 Op#:11		Hold Point	Certification / Map(s)
4.25 4.2.5.3	PERFORM A MAG PERMEABILITY CHECK OF THE MACHINED SURFACES USING A SEVERN PERMEABILITY INDICATOR GAGE. PERMEABILITY SHOULD BE NO GREATER THAN 1.02µCHECK THE PERMEABILITY IN 3 PLACES ON EACH SIDE OF THE T SECTION AT LOCATIONS ADJACENT TO EVERY 5TH HOLE STARTING WITH HOLE 5 AND ENDING WITH HOLE 95. INSPECT ONE POINT ON THE T SECTON- ANOTHER BELOW THE VPI GROOVE AND THE LAST POINT ON THE FLANGE. REPEAT THIS PROCESS ON BOTH SIDES OF THE PART. THERE WILL BE A TOTAL OF 57 POINTS INSPECTED PER SIDECOMPLETE THE IDC INDICATING THE PERMEABILITY RANGEPart Number: SE141-116Part Description: PRODUCTION WINDING FORM TYPE-C	65707/5.0 -Sub:1 Op#:120	PS584		IDC: 2
1.2.0.0	SOURCE FOR MAG PERMEABILITY	65707/5.0 -Sub:1 Op#:121		Hold Point	150.2
	SET PART ON RISERS WITH EITHER DATUM -D- FLANGE DOWN. PLACE A RISER ON EITHER SIDE OF THE POLOIDAL BREAK TO ENABLE CLAMPING TO ENSURE THAT THE DATUMS ARE COPLANER. LAY A STRAIGHT EDGE ACROSS THE DATUM -D- FLANGE TO VERIFY ALIGNMENT. ENSURE RADIAL ALIGNMENT BY LAYING A STRAIGHT EDGE ACROSS THE QUALIFIERS CUT ON THE OD OF EACH FLANGE. USE CLAMPS AS NECESSARY TO FORCE THE CASTING INTO POSITION. ONCE THE ALIGNMENT IS SET, INSTALL THE POLOIDAL BREAK SHIM ASSEMBLY AND ACCOMPANYING HARDWARE AND INSULATION PER THE ASSEMBLY DRAWING. VERIFY CLEARANCE OF 0.001* 0.002 BETWEEN BUSHING AND BOLT PER DRAWING NOTE 13. RECORD RESULTS IN IDC. APPLY THRED-GARD ANTI-SEIZE TO HARDWARE PER DRAWING NOTE 10. TORQUE THE ASSEMBLY 10 1500 FT-LBS.				
	VERIFY GAP AT POLOIDAL BREAK PER IDC.	65707/5.0 -Sub:1 Op#:130)		IDC: 2
3.1.1.4 3.2.2.1 3.2.2.2 4.2.6	SETUP AND INSPECT THE PART 100% PER THE DRAWING REQUIREMENTS. REFER TO PS593INSPECT FIDUCIALS THAT ARE LOCATED AROUND THE PERIPHERY OF BOTH FLANGESRECORD DIMENSIONS AS REQUIRED PER THE IDC'S EVALUATE INSPECTION DATA USING VERISURF AND REPORT FINDINGS TO ENGINEERING ISOURCE FOR DIMENSIONAL	65707/5.0 -Sub:1 Op#:132 65707/5.0 -Sub:1 Op#:133		Hold Point	IDC: 137
	THE RESISTANCE OF THE MID-PLANE ELECTRICAL INSULATION SHALL BE GREATER THAN 500 KOHMS WHEN TESTED AT 100 VDC.	00101/0.0 000.1 0p#.100	,	noid roint	
	TEST 1: THE INSULATION RESISTANCE BETWEEN THE MID-PLANE POLOIDAL BREAK SHIM AND WINDING FORM SHALL BE MEASURED, DURING THIS TEST, THE BOLTS SHOULD BE IN THEIR NORMAL STATE (I.E., ELECTRICALLY "FLOATING"). THE MID-PLANE SHIM SHALL BE CONNECTED TO ONE SIDE OF THE MEGGER, AND THE CASTING SHALL BE CONNECTED TO THE OTHER. RECORD RESULTS IN IDC.				
3.1.1.3 4.2.3.1 4.2.3.2	TEST 2: ALL OF THE BOLTS SHALL BE ELECTRICALLY CONNECTED (JUMPERED) TOGETHER IN ONE GROUP. THE MID-PLANE CASTING (SHIM) AND THE WINDING FORM SHALL BE ELECTRICALLY CONNECTED TOGETHER IN A SECOND GROUP. THE INSULATION RESISTANCE BETWEEN THE JUMPERED BOLTS (GROUP 1) AND THE JUMPERED WINDING FORM AND MID- PLANE (GROUP 2) SHALL BE MEASURED FOR COMPLIANCE. RECORD RESULTS IN IDC.	65707/5.0 -Sub:1 Op#:14()		IDC: 2



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Spec Ref	Activity	Visual Mfg Ref.	Ref Procedure	Witness/Hold Point	Reporting/Documentation Reg
	SOURCE FOR ELECTRICAL TEST	65707/5.0 -Sub:1 Op#:150)	Hold Point	
	BURNOUT RECTANGLE PER MATERIAL CARD.	65707/5.0 -Sub:8 Op#:10			
	MACHINE BOTH SIDES OF SHIM TO A FULL CLEAN UP. THICKNESS TO FINISH AT 2.050 +0/003. MACHINE ONE OF THE LONG				
	SIDES TO A CLEAN UP. 4 INCH WIDTH DIMENSION IS NOT CRITICAL NO IDC IS NECESSARY, THIS IS A TEMPORARY SHIM				
	PIECE.	65707/5.0 -Sub:8 Op#:20			
	SAW 20 PIECES TO .5-x1-x3.5- FROM CUSTOMER SUPPLIED MATERIAL DELIVER SHIMS TO RON BACK IN HIGH BAY		•		
	MACHINING.	65707/5.0 -Sub:11 Op#:10)		
	RECEIVE CUSTOMER SUPPLIED CASTING	65707/5.0 -Sub:2 Op#:10			
	MACHINE THE SHIM COMPLETE PER THE DRAWING AND CNC PROGRAMS.	65707/5.0 -Sub:2 Op#:20			
	ASSEMBLE (5) OF THE INSULATING SLEEVES INTO THE SHIM AND BOND USING LOCTITE 411, DO NOT INSTALL THE				
	BUSHINGS IN THE OUTSIDE HOLES. THEY WILL BE INSTALLED LATER.	65707/5.0 -Sub:2 Op#:30			Certificate of Conformance
	SAW OFF 16- AND MOVE TO NEXT WORK CENTER.	65707/5.0 -Sub:3 Op#:10			Certificate of Conformance
	MACHINE PER THE DRAWING FOR A SLIP FIT WITH MATING DETAIL. OBTAIN FINISHED MACHINED CASTING SHIM BEFORE				Continente en Contonnance
	FINAL SIZING THE O.D. OF THE SLEEVE.	65707/5.0 -Sub:3 Op#:20			
	RECEIVE MATERIAL-NOTIFY CFT AND FORWARD MATERIAL STORES.	65707/5.0 -Sub:4 Op#:10			Material Certification
	SAW OFF 30- LENGTH AND MOVE TO NEXT WORK CENTER.	65707/5.0 -Sub:5 Op#:10			Certificate of Conformance
	MACHINE PER THE DRAWING FOR A SLIP FIT WITH MATING DETAIL. CHECK FINISHED MACHINED CASTING BEFORE FINAL				Contailed of Contoinidation
	SIZING THE O.D. OF THE SLEEVE.	65707/5.0 -Sub:5 Op#:20			
	SAW 13- LENGTH AND MOVE TO NEXT WORK CENTER.	65707/5.0 -Sub:6 Op#:10			
	RECEIVE MATERIAL	65707/5.0 -Sub:7 Op#:10			
	MACHINE THE PROFILE LEAVING STOCK PER PROGRAMALSO MACHINE OUT FLAT STOCK PIECES FOR SHIMS BEHIND				
	THE OUTSIDE OF POLOIDAL BREAK FLANGE PER CNC PROGRAM.	65707/5.0 -Sub:7 Op#:20			
	SAW TO A LENGTH OF 6.75-	65707/5.0 -Sub:9 Op#:10			Material Certification
	MACHINE BEARING PLATES COMPLETE FROM MATERIAL SUPPLIED BY MAJOR TOOL VENDOR TO SUPPLY DIMENSIONAL	0070770.0 Oub.0 Op#.10			
	INSPECTION REPORTMTM TO DO ALL NDT TESTING PER NOTE 5Part Number: SE141-137 Rev: 1-Part Description: BEARING				
	PLATE-Dimensional Report: VENDOR SUPPLIED-Dimensional Report: VENDOR SUPPLIED	65707/5.0 -Sub:9 Op#:30			Dimensional Report
4.2.5	PERFORM A MAGNETIC PERMEABILITY CHECK USING A SEVERN PERMEABILITY INDICATOR GAGE. PERMEABILITY SHOULD				Binonoionai report
3.1.1.5.2	BE NO GREATER THAN 1.03uPart Number: SE141-137 Rev: 1Part Description: BEARING PLATE DETAIL	65707/5.0 -Sub:9 Op#:40	P\$584		IDC: 3
0.1.1.0.2	Saw to a Length of 10.5-	65707/5.0 -Sub:10 Op#:10			Material Certification
	MACHINE BEARING PLATES COMPLETE FROM MATERIAL SUPPLIED BY MAJOR TOOL VENDOR TO SUPPLY DIMENSIONAL	0070770.0 Oub.10 Op#.10	,		
	INSPECTION REPORTMTM TO DO ALL NDT TESTING PER NOTE 5P MAINTINGS EE141-138 Rev: 1Part Description.				
	BEARING PLATE-Dimensional Report: VENDOR SUPPLIED-Dimensional Report: VENDOR SUPPLIED	65707/5.0 -Sub:10 Op#:30	h		Dimensional Report
4.2.5	DERKING FALLE-DIMENSIONAL REPORT. VENDOR SOFFLED-DIMENSIONAL REPORT. VENDOR SOFFLED PERFORM A MAGNETIC PERMEABILITY CHECK USING A SOFFLED-DIMENSIONAL REPORT. VENDOR GAGE. PERMEABILITY SHOULD	0370773.0 -3ub.10 Op#.30	,		
4.2.5	BE NO GREATER THAN 1.039Part Number: SE141-138 Rev: 1-Part Description: BEARING PLATE DETAIL	65707/5.0 -Sub:10 Op#:40	DCEOA		IDC: 3
J. 1. 1. J.Z	DE NO ONENTEN THAN T.000FAIT NUMBER 3E 141-130 NEV. 1-FAIT DESCRIPTION, DEANING FEATE DETAIL	00707/5.0 -Sub: 10 Op#:40	F 3004	1	100.3

