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Inspec Hub 2	ction and Test F 2.5 MW- Casting	Plan: g & Machining	950PW89	Confid	ontial			
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Doc. 'PTP		Issued by ERD Deputy	Language English	Derived from W0402-H05-DA DEEN	01-6-	Rev.		
Rev.			Kind of	Revision				
0	First Issue							
1	Imbalance cont	trol deleted.						
1	M.Jokar	A.Rezaei			Sh.Arefi		5.28.	2017
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-	M.Jokar	A.Rezaei			Sh.Arefi		Jan.201	6
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N	Part/Process Description	Inspection or Test Reference Document	D ( 1D	Verified by			Quality Docs	Remarks			
No.			Reference Document	Performed By	1	2	3	(EN 10204- 2005)			
	Main Shaft	<b>Coupling - Casting</b>									
1	Pre casting										
1.1		check and review of project	-	supplier	Н	R	-	-	Note 1		
1.2		Casting drawing check	-	supplier	Н	R	-	-	Note 2		
1.3		Check of Model	EN 12890/ H1	supplier	R	R	-	3.1			
2	Casting										
2.1		Chemical analyses GJS-400-18U-LT	EN 1563	supplier	R	R	-	3.1			
2.2		Test block cutting	-	supplier	Н	R	-	-	At least 3 test block needed		
2.3		Tensile test	EN 1563/ EN 10002-1	supplier	Н	R	-	3.1			
2.4		Charpy impact test	EN 1563/ EN 148	supplier	Н	R	-	3.1			
2.5		Hardness test	EN ISO 6506-1	supplier	W	R	-	3.1			
2.6		Examination of surface condition	DIN EN 1370/DIN EN 1599/class 3	supplier	W	R	-	3.1	Note 3		
2.7		Microstructure	EN ISO 945/ DIN EN 1563	supplier	Н	R	-	3.1	Note 4		



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No.	Part/ Process Description	Inspection or Test	Reference Document	Performed By	Verified by		Quality Docs (EN 10204-	Remarks	
NO.			Reference Document		1	2	3	(EN 10204- 2005)	
2.8		Dimensional check	Drawing	supplier	W	R	-	3.1	
2.9		Ultrasonic thickness check	Drawing/ DIN 1685 - GTB –17	supplier	W	R	-	3.1	
2.10		Ultrasonic Test	EN 12680-3- level 2	supplier	W	R	-	3.1	
2.11		MT/PT	EN 1369 Level 3 (SM3/LM3C/AM3C)	supplier	W	R	-	3.1	
2.12		Marking	W0402-H05-DASH-304-W2E-001-6-DEEN	supplier	W	R		-	
3	Pre machining								
3.1		Checking For Completeness Of The Q.A Documents	-	supplier	Н	R	-	-	
4	After machining								
4.1		MT/PT	EN 1369 Level 3 (SM3/LM3C/AM3C)	supplier	W	R	-	3.1	
4.2		Dimensional check	Drawing/ W0402-N042-TPRO-304-W2E-001-1- EN/ ISO 2768-mk	supplier	W	R	-	3.1	





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N.	Part/Process	Inspection or lest	Reference Document	Performed By	Verified by			Quality Docs	Remarks
No.	Description				1	2	3	(EN 10204- 2005)	
4.3		Weight control	W0402-H05-DASH-304-W2E-001-6-DEEN	supplier	W	R		3.1	
5	Coating								
5.1		Thickness Check	DIN EN ISO 2808	supplier	W	R	-	3.1	Note 5
5.2		Coating Strength	ISO 2409	supplier	W	R	-	3.1	Note 6,7
6	Final Check								
6.1		Checking For Completeness Of The Q.A Documents	-	Supplier & pars	Н	R	-	3.1	

Definition of Terms and Symbols.

H: Hold point - The inspection/test will be notified, and held until presence of participant.

W: Witness point - The inspection/test will be notified.

R: Review of document - The Quality Documents (Records/Certificates) will be received.

- 1: Mapna Generator Co.(Pars).
- 2: Client or its Representative.
- : Other ( Based on the contract ).
- \*: For Mapna Generator Co. (PARS) Hold and Witness, Supplier Shall Notify Mapna Generator in Written at Proper Time Not Less Than 21 Working Days Before Inspection.

Note 1: before starting casting, supplier must provide a Manufacture Process Plane (MPP) that consist of all manufacturing process, casting drawings and inspections test. MPP must previously approved by purchaser.

- Note 2: Casting drawing (consist of casting size, test block size and location and etc.) must be prepare by casting-company and approve by client.
- Note 3: Repair welding is not permitted. Repair and mending work are only allowed after consultation and release through the client.
- Note 4: Structure must consist of at least 90% ferrite portion and 90% of the graphite in spherical form V and VI according to EN ISO 945.
- Note 5: Thickness of coating have to be in accordance with W0102-Q06-001-SPEC-304-W2E-001-4
- Note 6: all machined surface must be protected with Tectyl.
- Note 7: All treads must be covered with plastic plug.