ID		Ta: T	ask Name	Duration	Start	Finish	Predecessors	Components	
		M¢							
1	0	-	117 +	207 day	s Wed 15/11/17	Fri 21/09/18			Sep
		•							
2		->	Coils production	122 days	s Fri 22/12/17	Mon 02/07/18			
3	_	->	Cable Insulation - available at CERN	9 days	Fri 22/12/17	Wed 17/01/18			
4			H15OC0239B available at CERN (235m) -	1 dav	Fri 22/12/17	Fri 22/12/17			
			RRP#120	,	,,	,,			
5		->	H15OC0239A available at CERN (275m)-	1 day	Wed 17/01/18	Wed 17/01/18			
6			RRP#119	1 day	Wod 17/01/19	Wod 17/01/19			
0		-	RRP#118	i uay	weu 17/01/18	Wed 17/01/18			
7		->	H15OC0239C available at CERN (235m)-	1 day	Mon 08/01/18	Mon 08/01/18			
			RRP#121 Attention NON CONFORME						
8		÷	H15OC0239D available at CERN (235m)-	1 day	Wed 17/01/18	Wed 17/01/18			
9		->	Coils production	117 days	s Fri 12/01/18	Mon 02/07/18			
10	_		0-:110	62 days	Eri 12/01/19	Wod 11/04/19		All available	
10		~		oz üays	FII 12/01/18	wed 11/04/18			
11		->	Winding + curing	10 days	Fri 12/01/18	Thu 25/01/18			
12			Reaction	15 days	Fri 26/01/18	Thu 15/02/18	11		
12	•••		Cultaine	Γ days	Fr: 16/02/19	Thu 22/02/40	10		
13		->	Splicing	5 days	Fri 16/02/18	Thu 22/02/18	12		
14		->	Preparation/instrumentation + Impregnation + mesuring	32 days	Fri 23/02/18	Wed 11/04/18	13		
15		->	Coil 118 (to cut)	53 days	Mon 29/01/18	Fri 13/04/18		All available, End spacers G11 in	
10			$M_{in} = \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right) + \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)$	11	Mar 20/01/10	Mar 12/02/10	11	metrology	
16		->	Winding + curing (927) + transport to 180 (1day)	11 days	Mon 29/01/18	Mon 12/02/18	11		
17		->	Reaction (180) + transport to 927 (1 day)	15 days	Tue 13/02/18	Mon 05/03/18	16		
18			Preparation + Impregnation (180) + geometrical	27 days	Tue 06/03/18	Fri 13/04/18	17		
10		_	measures	CO 1					
19		->	Coil 119	62 days	Wed 14/02/18	Wed 16/05/18			
20		->	Winding + curing	10 days	Wed 14/02/18	Tue 27/02/18	16FS+1 day	All available	
21			Reaction	15 davs	Wed 28/02/18	Tue 20/03/18	20		
			Cullet	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. , 	T 07/57	24		
22		->	Splicing	5 days	Wed 21/03/18	1ue 27/03/18	21		
23		->	Preparation/instrumentation + Impregnation + mesuring	32 days	Wed 28/03/18	Wed 16/05/18	22		
24			Coil 121	67 dave	Thu 01/03/18	Fri 08/06/18			
				or augo					
25		÷	Winding + curing	15 days	Thu 01/03/18	Wed 21/03/18	20FS+1 day		
26		->	Reaction	15 days	Thu 22/03/18	Fri 13/04/18	25		
27			Splicing	5 days	Mon 16/04/18	Fri 20/04/18	26		
				s days					
28		->	Preparation/instrumentation + Impregnation + mesuring	32 days	Mon 23/04/18	Fri 08/06/18	27		
29	_	->	Coil 122	67 days	Fri 23/03/18	Mon 02/07/18			
30			Winding + curing	15 davs	Fri 23/03/18	Mon 16/04/18	25FS+1 day		
				15 0035	111 23/03/10		251511 ddy		
31		->	Reaction	15 days	Tue 17/04/18	Tue 08/05/18	30		
32		->	Splicing	5 days	Wed 09/05/18	Wed 16/05/18	31		
33			Prenaration/instrumentation + Impregnation + mesuring	32 days	Thu 17/05/18	Mon 02/07/18	27		
				52 0895	1110 17703/10	10011 02/07/18	JL		
34		÷	STEP 0 : Cable tests to find the maximum	110 days	s Wed 15/11/17	Fri 04/05/18			STEP 0 : Ca
45		-	Constraint possible on the cable	68 davs	Mon 27/11/17	Wed 14/03/18			
			analysis						
46		->	Validation of the E-modulus dimensional	15 days	Mon 27/11/17	Fri 15/12/17			Validatio
			measurements vs. FARO arm measurements						Vandatio
47			Faro measurement of calibration blocks, and 4	5 days	Mon 27/11/17	Fri 01/12/17			
			blocks from C105						
48		->	E-modulus measurements of calibration blocks	3 days	Mon 04/12/17	Wed 06/12/17			
49			and 4 blocks from C105	3 days	Mon 27/11/17	Wed 29/11/17			
45		~	Faro measurement of CI13	5 uays	101011 27/11/17	weu 25/11/17			
50		->	Faro measurement of C108 (with and without	5 days	Mon 04/12/17	Fri 08/12/17			
51			trace) Earo measurement of C111/106 (with and	6 davs	Wed 06/12/17	Wed 13/12/17			
			without trace)	,.		,			
52		->	E-modulus measurements of C108 (with and	6 days	Wed 06/12/17	Wed 13/12/17			
53		2	without trace)	2 days	Wed 12/12/17	Eri 15/12/17			
			and without trace)	5 uays	weu 15/12/17	111 13/12/17			
54	-	->	Determination of Azimuthal size vs. Mid-plane	26 days	Wed 13/12/17	Wed 31/01/18			
		_	average normal stress	10.1		5 · 42/24/42			
55			Multi step E-modulus measurements of calibration blocks and 4 blocks from C105 with	13 days	Wed 13/12/17	Fri 12/01/18			
			Fuji film.						
56		->	Multi step E-modulus measurements of C108	8 days	Mon 15/01/18	Wed 24/01/18			
57			with Fuji film.	1E dave	Thu 21/12/17	Wod 24/01/19			
) <i>כ</i>		->	אכער דט אושאיש. דעט ממנא ממעריאט אוואיש. דעט מעניאיש איז מעניאיש measuring bar data	TO UQÂS	21/12/1/	••eu 24/UI/18			
58		->	Analysis of ID57. FUJI data and comparison to	5 days	Thu 25/01/18	Wed 31/01/18			
			measuring bar data	20 -1	Thu 01 /02 /15	Mod 14/00 (
59			Determination of Azimuthal size vs. Mid-plane	3U days	ı nu 01/02/18	vved 14/03/18			
60		-5	Analysis of ID56. FUJI data and comparison to	30 days	Thu 01/02/18	Wed 14/03/18			
			measuring bar data (inner and outer layer						
61		2	Sensors)	30 dave	Thu 01/02/10	Wed 14/02/10			
		7	אכטו וט מועאיז. דטו ממדם and comparison to measuring bar data (inner and outer layer	SU UdYS		···cu 14/U3/18			
			sensors)						
62		->	Ten stack E-modulus measurements	60 days	Mon 27/11/17	Fri 02/03/18			
63			Validation of MQXF ten stacks vs. 11 T ten stacks	8 days	Mon 27/11/17	Wed 06/12/17			
			vs 11 T coil E-modulus						
64			Ten stack E-modulus on cable stacks	40 days	Mon 08/01/18	Fri 02/03/18			
65		->	Strand type 108/127, 31 mm mica, 0.1 mm thick	40 days	Mon 08/01/18	Fri 02/03/18			
			ins @ 5 Mpa						
66		->	Strand type 108/127, 25 mm mica, 0.135 mm	40 days	Mon 08/01/18	Fri 02/03/18			
67		->	പ്പാ സ്ഥാ E-modulus press measurements	76 davs	Fri 22/12/17	Tue 24/04/18			
				7.	P.100	T			
68		4	Determination of E-moduls and azimuthal coil size for collaring mock up	76 days	rri 22/12/17	ı ue 24/04/18			
69			Cut CR03 coil	10 days	Fri 22/12/17	Thu 18/01/18			
70			Drawing	1 day	Fri 22/12/17	Fri 22/12/17			
/0		7	מאווא מאוווא	т иду	111 22/12/17	111 22/12/17			
71		->	Rough cut (B.180)	3 days	Mon 08/01/18	Wed 10/01/18			
72		->	Finitions (B.180)	6 davs	Thu 11/01/18	Thu 18/01/18	71		
73		->	Multi step E-modulus measurements of 3xCR03	20 days	Fri 19/01/18	Thu 15/02/18			
			segments with ruji film up to 75 MPa.						
74		->	E-modulus measurements of collaring mock	10 days	Fri 19/01/18	Thu 01/02/18			
	-		(CR03) up samples up to 25 Mpa	م ا	Man 10/00/00		10		
75		4	Cut C118 coil (927)	2 days	IVION 16/04/18	1ue 17/04/18	18		
	1			ſ	•		D	Insertion Million A	· · · · · · · · · · · · · · · · · · ·
-	_ · ·	mag	met tests_V3_s lask Milestone		▼	Project Summary	u		Manual Task
Projec Date:	ct: 11T Wed 2	21/02	2/18 Split Summary			Inactive Task		Inactive Summary	Duration-only

11T tests Coils production Cable Insulation - available at CERN H15OC0239B available at CERN (235m) - RRP#120 H15OC0239A available at CERN (275m)- RRP#119 H15OC0240A available at CERN (235m)- RRP#118 H15OC0239C available at CERN (235m)- RRP#121 Attention NON CONFORME H15OC0239D available at CERN (235m)- RRP#122 Coils production Coil 120 Winding + curing Reaction Coil 118 (to cut) Winding + curing (927) + trans Read Coil 1 STEP 0 : Cable tests to find the maximum constraint possible on the cable Azimuthal coil size measurements - Exploratory analysis Validation of the E-modulus dimensional measurements vs. FARO arm measurements Faro measurement of calibration blocks, and 4 blocks from C105 E-modulus measurements of calibration blocks and 4 blocks from C105 Faro measurement of C113 Faro measurement of C108 (with and without trace) Faro measurement of C111/106 (with and without trace) E-modulus measurements of C108 (with and without trace) E-modulus measurements of C111/106 (with and without trace) Determination of Azimuthal size vs. Mid-plane average normal stress Multi step E-modulus measurements of calibration blocks and 4 blocks from C105 with Fuji film. Multi step E-modulus measurements of C108 with Fuji f Analysis of ID56. FUJI data and comparison to measuring bar data Analysis of ID57. FUJI data and comparison to Determination of Azimuthal size vs. Mid-plane peak stress normal stress Analysis of ID56. FUJI data and co Analysis of ID57. FUJI data and co Ten stack E-modulus measurements Validation of MQXF ten stacks vs. 11 T ten stacks vs 11 T coil E-modulus Ten stack E-modulus on cable stacks Strand type 108/127, 31 mm mica, 0.1 Strand type 108/127, 25 mm mica, 0.1 E-modulus press measurements Determination of E-moduls and azimuthal coil size for collaring mock up Cut CR03 coil Drawing Rough cut (B.180) Finitions (B.180) Multi step E-modulus measurements of 3xCR03 segn E-modulus measurements of collaring mock (CR03) up Manual Summary Rollup Start-only Manual Task E External Tasks Deadline + Baseline Miles Duration-only Manual Summary Finish-only External Milestone Baseline Sum ____ Baseline Page 1

Qtr 1, 2018

Jan

Qtr 4, 2017

Oct

Nov

Dec

Feb				Mar	Qtr 2, 2018	Apr		May		Jun	Qtr 3, 2018
											1
											1
					i						
SI	plicin	ıg									
		Prepa	ration/instrur	nentation + Ir	npregnation + mesuring						
sport to 1	180 (*	1day)				٦					
ction (180	0) + t	ransport	to 927 (1 day Preparation	/) + Impregnati	on (180) + geometrical me	easures					
119 Wind	ding	+ curing						1			
		1	React	tion Si	plicing						
					Preparation/instru	umentation	+ Impregnation +	mesuring			
	C	Coil 121	Winding	+ curing	Π				1		
				1	Reaction	Splicing					
							Preparation/instru	mentation + Impre	gnation + mesuring		
				Coil 122	Winding + curing		Postion				1
						•	Reaction	Splicing			
								Prepara	tion/instrumentation	+ Impregnation + n	nesuring
	_										
ilm.											
easuring	bar o	lata									
mparison	n to m	neasuring	g bar data (inı	ner and outer	layer sensors)						
mparison	ı to m	neasuring	g bar data (ini	ner and outer	layer sensors)						
mm thic	k ins	@ 5 Mpa									
ס mm thi	ICK İN	s @ 5 Mp	Ja								
nents with	h Fuji	film up t	to 75 MPa.								
mples up	o to 2	5 Mpa			Cut 0	C11 <mark>8</mark> coil (9	27)				
stone	⇒ ∎		Progress								
lary			Manual Prog	Jiess							

3	Jul	Aug	Sep	Qtr 4, 2018	Oct	
						-
		 	 			_

		Ta:T Mc	Fask Name	Duration	Start	Finish	Predecessors	Components	
	0								
76		->	Multi step E-modulus measurements C118	5 days	Wed 18/04/18	Tue 24/04/18	75		
77		->	segments with Fuji film up to 75 MPa. F-modulus measurements of collaring mock	5 days	Wed 18/04/18	Tue 24/04/18	75		
			(C118) up samples up to 25 Mpa	/-					
78		÷	Faro arm measurements	95 days	Mon 27/11/17	Tue 24/04/18			
79		->	Determination of azimuthal coil size for collaring	95 days	Mon 27/11/17	Tue 24/04/18			
80		-5	Faro arm measuremenst for first collaring mock	5 davs	Mon 27/11/17	Fri 01/12/17			
			up (C105 and 107)		- , ,	-,,,			
81		÷	Faro arm measuremenst for second collaring	5 days	Fri 19/01/18	Thu 25/01/18			
82		->	Faro arm measuremenst for second collaring	5 days	Wed 18/04/18	Tue 24/04/18	75		
02			mock up (C118)	70 .4	NA 45/04/40	T			
03		->	Pressure uniformity measurements	70 days	WION 15/01/18	Tue 24/04/18			
84		÷	Investigation of pressure uniformity on	10 days	Mon 15/01/18	Fri 26/01/18			
			MPa and 30 MPa applied pressure						
85		->	Fuji film analysis, on RRP 108/127-31 mm mica,	10 days	Mon 15/01/18	Fri 26/01/18			
86		->	0.1 mm thick ins @ 5 Mpa Fuii film analysis, on RRP 108/127-25 mm mica.	10 days	Mon 15/01/18	Fri 26/01/18			
			0.135 mm thick ins @ 5 Mpa						
87		->	Investigation of pressure uniformity on ten	5 days	Mon 26/02/18	Fri 02/03/18			
			pressure						
88		-5	Fuji film analysis, on RRP 108/127-31 mm mica,	5 days	Mon 26/02/18	Fri 02/03/18			
89		->	Fuji film analysis, on RRP 108/127-25 mm mica,	5 days	Mon 26/02/18	Fri 02/03/18			
			0.135 mm thick ins @ 5 Mpa						
90		->	Investigation of pressure uniformity on coils at 5 MPa, 30 MPa and 70 MPa applied pressure	65 days	Mon 22/01/18	Tue 24/04/18			
91		->	Fuji film analysis, on coil CR03	10 days	Mon 22/01/18	Fri 02/02/18			
92			Fuji film analysis, on coil 118	5 days	Wed 18/04/18	Tue 24/04/18	75		
93			Collaring	190 days	Fri 08/12/17	Fri 21/09/18			
٩л			1 tost on 150 mm samula (tau 11 t	, , , , , , , , , , , , , , , , , , ,	Fri 08/12/17	Fri 10/01/10			
J-1		->	יו נפאר טון באט מדא sample (דס validate instrumentation and methodology) with 3 shims	∠⊥ udyS	00/ 12/ 1/	· · · ± ⁊/ U1/ 1ð			
~-			- CR107						
95		->	First test - shim 0,6mm	11 days	Fri 08/12/17	Fri 29/12/17			
96		-5	Second test - shim 0,7mm	4 days	Fri 22/12/17	Wed 10/01/18			
97		->	Third test - shim 0,8mm	7 days	Thu 11/01/18	Fri 19/01/18			
98		->	3 collaring with the CR03. 3 shims each	75 days	Fri 22/12/17	Mon 23/04/18			
00			Dronaration of the complex	16 days	Fr: 22/12/17	Fr: 26/01/19			
55		-	Preparation of the samples	10 uays	FII 22/12/17	FII 20/01/18			
100		->	First sample (average Section)	15 days	Fri 16/02/18	Thu 08/03/18	73;81		
101		->	First test - shim 0,6mm	5 days	Fri 16/02/18	Thu 22/02/18			
102		->	Second test - shim 0,7mm	5 days	Fri 23/02/18	Thu 01/03/18	101		
103		-5	Third test - shim 0.8mm	5 davs	Fri 02/03/18	Thu 08/03/18	102		
104			(constant)	, 45 daug	5	Thu: 20/02/40			
104		~	Second sample (Maximum Section)	15 uays	FIT 05/ 05/ 18	1110 25/05/18			
105		->	First test - shim 0,6mm	5 days	Fri 09/03/18	Thu 15/03/18	103		
106		->	Second test - shim 0,7mm	5 days	Fri 16/03/18	Thu 22/03/18	105		
107		->	Third test - shim 0,8mm	5 days	Fri 23/03/18	Thu 29/03/18	106		
108		- 3	Third sample (average Section)	15 davs	Tue 03/04/18	Mon 23/04/18			
109		÷	First test - shim 0,6mm	5 days	Tue 03/04/18	Mon 09/04/18	107		
110		->	Second test - shim 0,7mm	5 days	Tue 10/04/18	Mon 16/04/18	109		
111		->	Third test - shim 0,8mm	5 days	Tue 17/04/18	Mon 23/04/18	110		
112		-	Data analysis	45 davs	Fri 16/02/18	Mon 23/04/18			
112				10	, -, -, -, -, -, -, -, -, -, -, -, -, -,		02.70		
113			Last collaring mock up (2 collarings) - Coil 118	10 days	wed 25/04/18	wed 09/05/18	82;76		
114		->	Magnets Assembly	120 days	Tue 03/04/18	Fri 21/09/18			
115		->	Assembly of the MBHSP107	66 days	Tue 03/04/18	Fri 06/07/18			
116		2	Isolation (927)	10 dave	Thu 17/05/10	Thu 21/05/10			
10		->	1501ati011 (327)	to udyS	1110 17/US/18	111U 31/US/18			
		->	Collaring + magnetic measurements (927)	6 days	Fri 01/06/18	Fri 08/06/18	116		
117									1
117 118		-5	Shell instrumentation	5 days	Tue 03/04/18	Mon 09/04/18			
117 118 119		*	Shell instrumentation Yoke installation + shrinking cylinder welding (180)	5 days 6 days	Tue 03/04/18 Mon 11/06/18	Mon 09/04/18 Mon 18/06/18	117		
117 118 119 120			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement	5 days 6 days 14 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18	117		
117 118 119 120			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement	5 days 6 days 14 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18	117 119		
117 118 119 120 121			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement Assembly of the MBHSP108	5 days 6 days 14 days 38 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18	117 119		
111711181119112011211122			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement Assembly of the MBHSP108 Isolation (927)	5 days 6 days 14 days 38 days 10 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18	117 119		
 1117 1118 1119 1120 1121 1122 1123 			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement Assembly of the MBHSP108 Isolation (927) Collaring + magnetic measurements (927)	5 days 6 days 14 days 38 days 10 days 6 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18	117 119 122		
1117 1118 1119 1120 121 122 123 124			Shell instrumentationYoke installation + shrinking cylinder welding (180)Splicing, instrumentation, electrical measurementAssembly of the MBHSP108Isolation (927)Collaring + magnetic measurements (927)Yoke installation + shrinking cylinder welding (180)	5 days 6 days 14 days 38 days 10 days 6 days 6 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18	117 119 122 123		
1117 1118 1119 1120 1121 1122 1123 1124 1125			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement Assembly of the MBHSP108 Isolation (927) Collaring + magnetic measurements (927) Yoke installation + shrinking cylinder welding (180) Work at 927 : Splicing, instrumentation, electrical/	5 days 6 days 14 days 38 days 10 days 6 days 6 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Thu 02/08/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18	117 119 122 123 124		
1117 1118 1119 1120 121 122 123 124 125			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement Assembly of the MBHSP108 Isolation (927) Collaring + magnetic measurements (927) Yoke installation + shrinking cylinder welding (180) Work at 927 : Splicing, instrumentation, electrical/ magnetic measurement	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Thu 02/08/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Thu 23/08/18	117 119 122 123 124		
1117 118 119 120 121 122 123 124 125 126			Shell instrumentationYoke installation + shrinking cylinder welding (180)Splicing, instrumentation, electrical measurementAssembly of the MBHSP108Isolation (927)Collaring + magnetic measurements (927)Yoke installation + shrinking cylinder welding (180)Work at 927 : Splicing, instrumentation, electrical/ magnetic measurementCold tests in SM18 (FRESCA 2)	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 54 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Thu 02/08/18 Mon 09/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Thu 23/08/18 Fri 21/09/18	117 119 122 123 124		
1117 1118 1119 1120 121 122 123 124 125 126 127			Shell instrumentationYoke installation + shrinking cylinder welding (180)Splicing, instrumentation, electrical measurementAssembly of the MBHSP108Isolation (927)Collaring + magnetic measurements (927)Yoke installation + shrinking cylinder welding (180)Work at 927 : Splicing, instrumentation, electrical/ magnetic measurementCold tests in SM18 (FRESCA 2)Preparation MBHSP107	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 54 days 5 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Wed 25/07/18 Mon 09/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Wed 01/08/18 Fri 21/09/18 Fri 13/07/18	117 119 122 123 124 115		
1117 1118 1119 1120 121 122 123 124 125 126 127 128			Shell instrumentationYoke installation + shrinking cylinder welding (180)Splicing, instrumentation, electrical measurementAssembly of the MBHSP108Isolation (927)Collaring + magnetic measurements (927)Yoke installation + shrinking cylinder welding (180)Work at 927 : Splicing, instrumentation, electrical/ magnetic measurementCold tests in SM18 (FRESCA 2)Preparation MBHSP107Tests MBHSP107	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 54 days 5 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Wed 25/07/18 Mon 09/07/18 Mon 09/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Thu 23/08/18 Fri 13/07/18 Fri 03/08/18	117 119 122 123 124 115 115		
1117 1118 1119 1120 121 122 123 124 125 126 127 128 129			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement Assembly of the MBHSP108 Isolation (927) Collaring + magnetic measurements (927) Yoke installation + shrinking cylinder welding (180) Work at 927 : Splicing, instrumentation, electrical/ magnetic measurement Cold tests in SM18 (FRESCA 2) Preparation MBHSP107 Tests MBHSP107 Preparation MBHSP108	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 5 days 5 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Wed 25/07/18 Mon 09/07/18 Mon 09/07/18 Mon 16/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Wed 01/08/18 Fri 21/09/18 Fri 13/07/18 Fri 03/08/18	117 119 122 123 124 115 127 121		
1117 1118 1119 1120 121 122 123 124 125 126 127 128 129			Shell instrumentation Yoke installation + shrinking cylinder welding (180) Splicing, instrumentation, electrical measurement Assembly of the MBHSP108 Isolation (927) Collaring + magnetic measurements (927) Yoke installation + shrinking cylinder welding (180) Work at 927 : Splicing, instrumentation, electrical/ magnetic measurement Cold tests in SM18 (FRESCA 2) Preparation MBHSP107 Tests MBHSP107 Preparation MBHSP108	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 5 days 15 days 5 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Wed 25/07/18 Mon 09/07/18 Mon 09/07/18 Mon 16/07/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Thu 23/08/18 Fri 13/07/18 Fri 03/08/18 Thu 30/08/18	117 119 122 123 124 125 127 121		
1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130			Shell instrumentationYoke installation + shrinking cylinder welding (180)Splicing, instrumentation, electrical measurementAssembly of the MBHSP108Isolation (927)Collaring + magnetic measurements (927)Yoke installation + shrinking cylinder welding (180)Work at 927 : Splicing, instrumentation, electrical/ magnetic measurementCold tests in SM18 (FRESCA 2)Preparation MBHSP107Tests MBHSP108Tests MBHSP108	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 5 days 5 days 15 days 15 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Wed 25/07/18 Mon 09/07/18 Mon 09/07/18 Mon 16/07/18 Fri 24/08/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Wed 01/08/18 Fri 21/09/18 Fri 03/08/18 Thu 30/08/18 Fri 21/09/18	117 119 122 123 124 115 127 121 129		
1117 1118 1119 1120 121 122 123 124 125 126 127 128 129 130 131			Shell instrumentationYoke installation + shrinking cylinder welding (180)Splicing, instrumentation, electrical measurementAssembly of the MBHSP108Isolation (927)Collaring + magnetic measurements (927)Yoke installation + shrinking cylinder welding (180)Work at 927 : Splicing, instrumentation, electrical/ magnetic measurementCold tests in SM18 (FRESCA 2)Preparation MBHSP107Tests MBHSP107Preparation MBHSP108Tests MBHSP108Magnetic measurement SP107 - 927	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 5 days 15 days 5 days 15 days 30 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Wed 25/07/18 Mon 09/07/18 Mon 09/07/18 Mon 09/07/18 Fri 24/08/18 Fri 31/08/18 Mon 06/08/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Wed 01/08/18 Fri 21/09/18 Fri 03/08/18 Thu 30/08/18 Fri 21/09/18	117 119 122 123 124 125 124 115 127 121 129 128		
1117 1118 1119 1120 121 122 123 124 125 126 127 128 129 130 131 132			Shell instrumentationYoke installation + shrinking cylinder welding (180)Splicing, instrumentation, electrical measurementAssembly of the MBHSP108Isolation (927)Collaring + magnetic measurements (927)Yoke installation + shrinking cylinder welding (180)Work at 927 : Splicing, instrumentation, electrical/ magnetic measurementCold tests in SM18 (FRESCA 2)Preparation MBHSP107Tests MBHSP107Preparation MBHSP108Tests MBHSP108Magnetic measurement SP107 - 927Magnetic measurement SP107 - 927	5 days 6 days 14 days 38 days 10 days 6 days 6 days 16 days 5 days 5 days 15 days 15 days 30 days 2 days	Tue 03/04/18 Mon 11/06/18 Tue 19/06/18 Tue 03/07/18 Tue 03/07/18 Tue 17/07/18 Wed 25/07/18 Wed 25/07/18 Mon 09/07/18 Mon 09/07/18 Fri 24/08/18 Fri 31/08/18 Mon 06/08/18	Mon 09/04/18 Mon 18/06/18 Fri 06/07/18 Thu 23/08/18 Mon 16/07/18 Tue 24/07/18 Wed 01/08/18 Wed 01/08/18 Fri 21/09/18 Fri 03/08/18 Fri 21/09/18 Fri 21/09/18 Mon 17/09/18	117 119 122 123 124 115 127 121 129 128		

Sep	Qtr 4, 2017 Oct	Nov Dec Jan Feb	Mar	Qtr 2, 2018 Apr F-modulus measurements C118 se	Qtr 3, 2018 Jun arguments with Fuii film up to 75 MPa
			E-moduli	is measurements of collaring moc	(C118) up samples up to 25 Mpa
	Faro arm m	easurements			1
	Determination of azimuthal coil size for collar	ring mock up			
	Faro arm measu	remenst for first collaring mock up (C105 and 107)			
		Faro arm measuremenst for second collaring mock up (CR03)			
			F	aro arm measuremenst for second	d collaring mock up (C118)
		Pressure uniformity measurements			1
	Investigation of pressure uniformity on non-read	cted, nor impregnated conductors at 5 MPa and 30 MPa applied pressure			
		Fuji film analysis, on RRP 108/127-31 mm mica, 0.1 mm thick ins @ 5 M	Ipa		
		Fuji film analysis, on RRP 108/127-25 mm mica, 0.135 mm thick ins @ 5	Мра		
		Investigation of pressure uniformity on ten stacks at 5 MPa, 30 MPa and 70 MPa applied p	pressure		
		Fuji film analysis, on RRI	P 108/127-31 mm mica, 0.1 mm thick ins @ 5 M	ра	
		Fuji film analysis, on RRP	9 108/127-25 mm mica, 0.135 mm thick ins @ 5 I	Ира	
	Investigati	on of processing uniformity on coils at 5 MDs 20 MDs and 70 MDs applied processing .			
	nivesugau	on of pressure uniformity on cons at 5 MPa, 50 MPa and 70 MPa applied pressure			
		Fuji film analysis, on coil CR03			
				Fuji film analysis, c	on coil 118
		Collaring			
	1 test on 150 mm sample (to validate instrumentation and methodol	logy) with 3 shims - CR107			
		First test - shim 0.6mm			
		Second test - shim 0.7mm			
		Third test - shim 0,8mm			
		3 collaring with the CR03, 3 shims each Preparation of the samples		1	
		Eirst sample (average Section)			
		First test -	- shim 0,6mm		
		Se	econd test - shim 0,7mm		
			Third test - shim 0,8mm		
		Second sample	le (Maximum Section)	-	
			First test - shim 0,6mm	•	
			Second test - shim 0,7m	m	
			Third test - shi	m 0,8mm	
			Third sample (average Sec	tion)	
				First test - shim 0,6mm	
				Second test - shim 0,7mm	
				Third test - shim	0,8mm
			Data analysis		
				Last collaring	mock up (2 collarings) - Coil 118
					Isolation (927)
				Shell instrumentation	Conaring + magnetic measurements (927)
					Yoke installation + shrinking cylinder welding (180)
					Splicing, instrumentation, electrical measure
					Isolation (9
					Collaring +
					Yoke in
					Preparation M

 Date: Wed 21/02/18
 Split
 Inactive Task

 Inactive Summary
 Inactive Task

Page 2

