

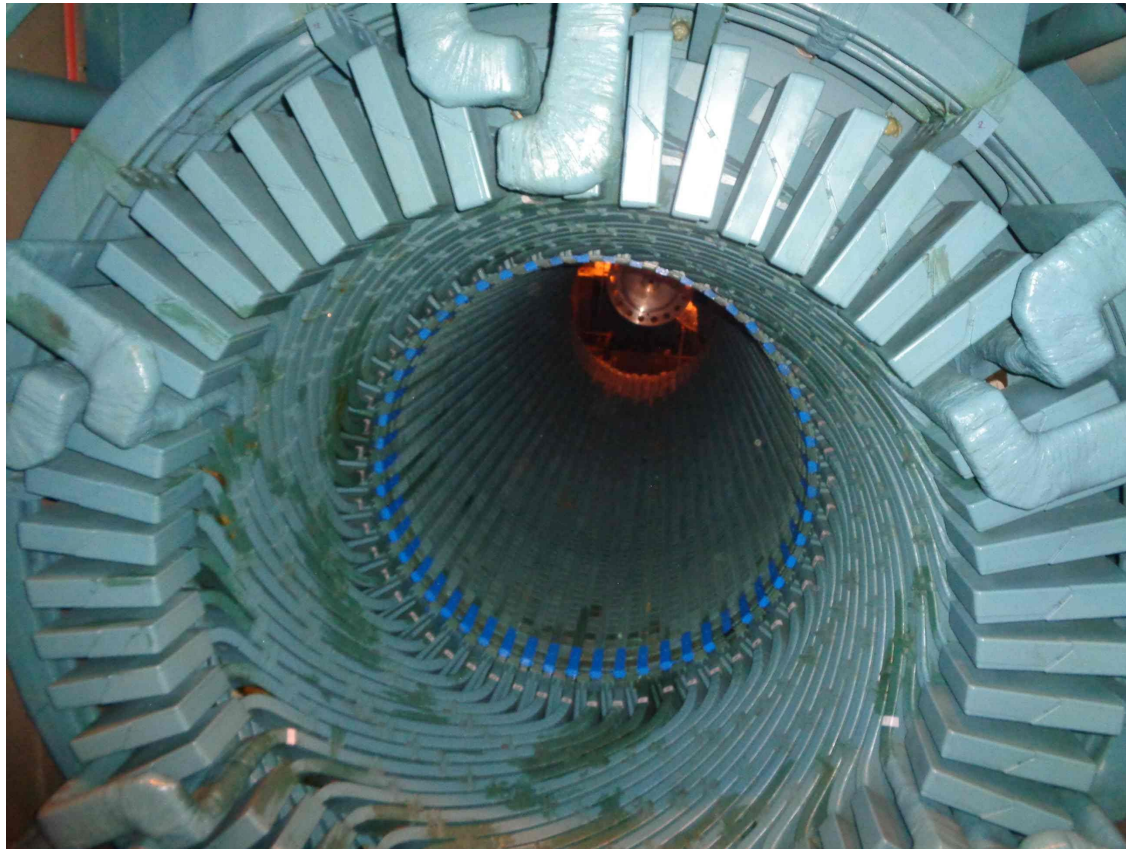


Genius Engineering & Service Co., Ltd.

STATOR END-WINDING CONSOLIDATION

EXPERIENCE

Unit Reference



STG2C

Generator

Unit				
No.	Description	Unit		Remark
1	OEM	-	GE	
2	Type	-	H2 COOLED	
3	Serial Number	-		
4	Speed	rpm	3,000	
5	Grid frequency	Hz	50	
6	Apparent Power	KVA	211,750	
7	Power Factor	0.85	0.85	
8	Voltage	kV	15.75	
9	Cooling system		H2 COOLED	
10	Excitation	-	Brush	
11	Manufacturing Year	-	1999	
12	Date of readings	-	6 May 2016	
13	Operating Hours	H	133428	
14	Number of starts	#	235	
15	Barring gear Hours	H		

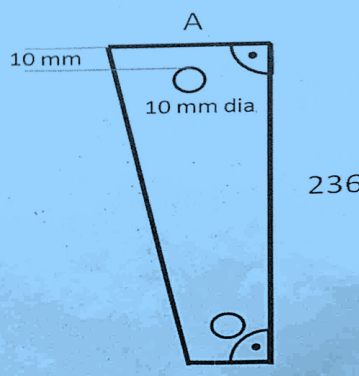
END-WINDING CONSOLIDATION



Design  Perform

Protocol Sheet Wedge size

Slot #	DE		NDE	
	A	B	A	B
1	47.5	19.5	45.5	25.5
2	55.5	28.5	50.5	21.5
3	58.5	26.5	63.5	20.5
4	49.5	25.5	66.5	25.5
5	58.5	18.5	53.5	20.5
6	56.5	26.5	59.5	21.5
7	62.5	17.5	46.5	31.5
8	49.5	24.5		
9	52.5	22.5		
10	63.5	22.5		
11	64.5	25.5	55.5	16.5
12	53.5	24.5	53.5	25.5
13	62.5	26.5	67.5	20.5
14	51.5	24.5	58.5	25.5
15	51.5	30.5	68.5	30.5
16	56.5	22.5	51.5	28.5
17	62.5	17.5	49.5	20.5
18	51.5	26.5		
19	59.5	24.5		
20	54.5	19.5	57.5	18.5
21	49.5	24.5	62.5	24.5
22	54.5	22.5	53.5	23.5
23	57.5	13.5	51.5	27.5
24	60.5	15.5	60.5	19.5
25	54.5	26.5	53.5	23.5
26	59.5	22.5	41.5	31.5
27	48.5	22.5		
28	58.5	26.5		
29	49.5	14.5	54.5	20.5
30	58.5	31.5	55.5	33.5
31	46.5	19.5	51.5	15.5
32	57.5	26.5	61.5	24.5
33	59.5	21.5	54.5	19.5
34	42.5	19.5	61.5	25.5
35	36.5	29.5	55.5	22.5
36	49.5	28.5		
37	46.5	17.5		
38	53.5	27.5	41.5	30.5
39	51.5	17.5	56.5	19.5
40	41.5	29.5	61.5	15.5
41	63.5	18.5	51.5	21.5
42	44.5	25.5	60.5	15.5
43	40.5	24.5	59.5	18.5
44	53.5	19.5	49.5	22.5
45	51.5	21.5		
46	52.5	22.5		
47	44.5	18.5	52.5	31.5
48	48.5	33.5	53.5	14.5
49	57.5	23.5	54.5	22.5
50	51.5	20.5	51.5	22.5
51	50.5	26.5	57.5	27.5
52	58.5	26.5	63.5	29.5
53	37.5	15.5	54.5	23.5
54	47.5	25.5		

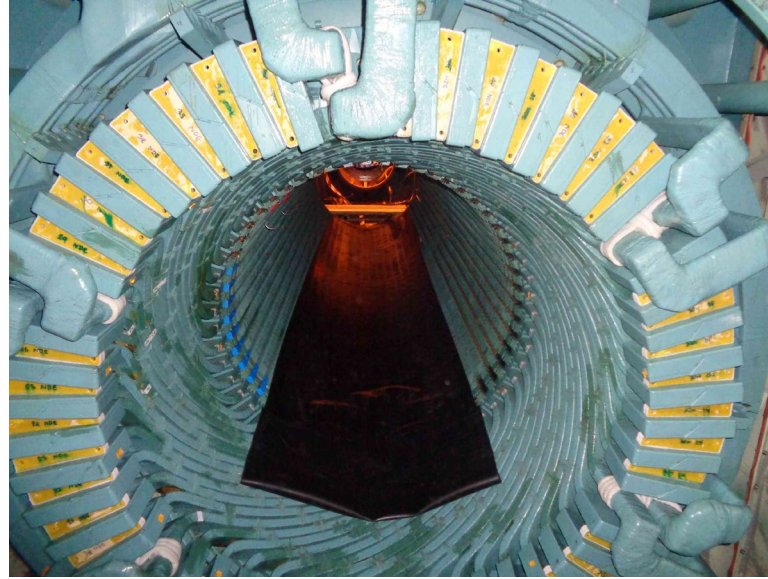


Calculation Section

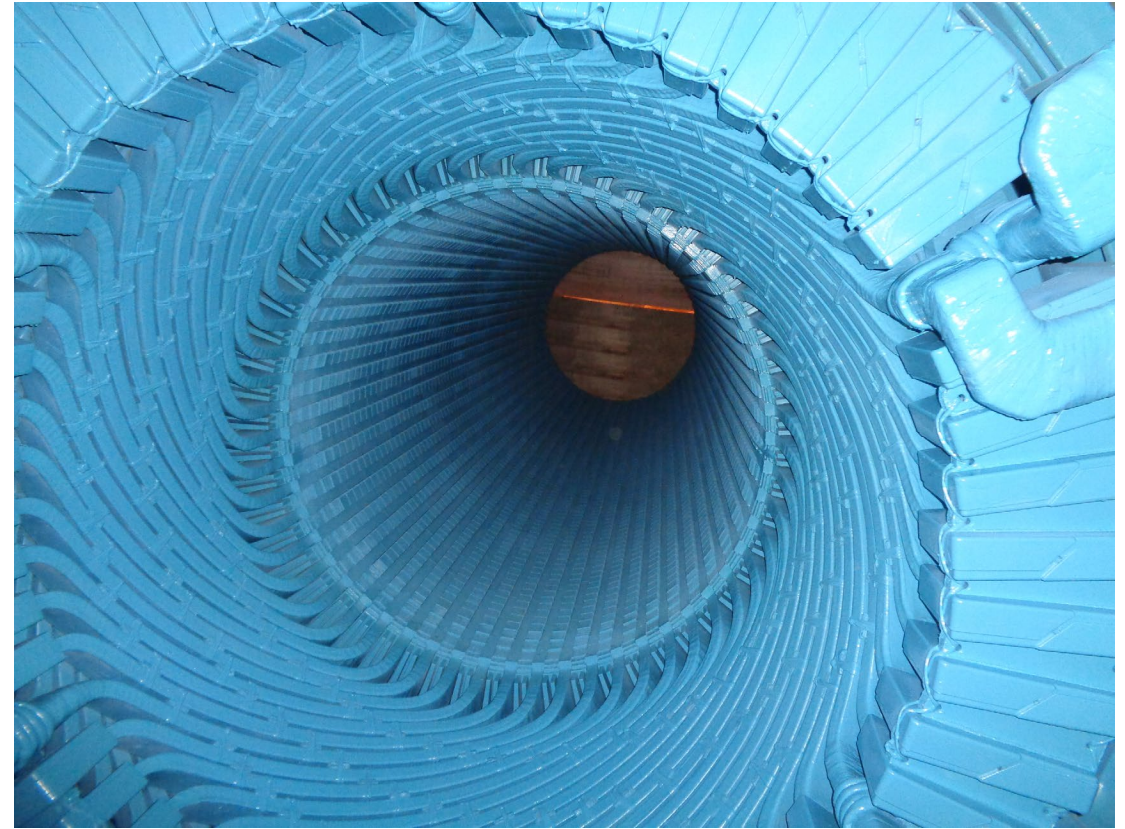
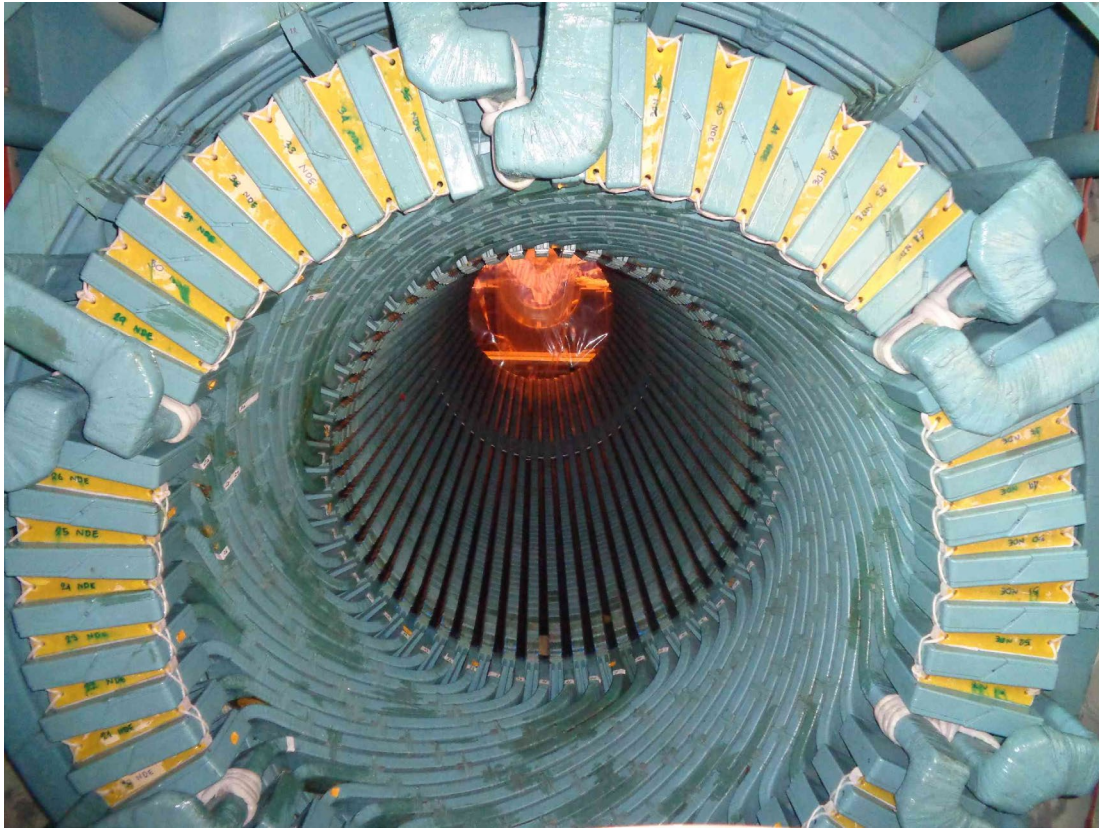
DE				NDE			
A		B		A		B	
max	64.5	33.5	max	68.5	33.5		
min	36.5	13.5	min	41.5	14.5		
diff	28	20	diff	27	19		
Standard wedge				Standard wedge			
A		B		A		B	
	64		33		68		33
area	2112			area	2294.75 mm2		
total area	114048			total area	96379.5 mm2		
total DE+NDE	210427.5			sheet	1200		
					1800		
					2160000		



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Unit Reference

Generator

Unit				
No.	Description	Unit		Remark
1	OEM	-	GEC ALSTHOM	
2	Type	-	T190-240	
3	Serial Number	-		
4	Speed	rpm	3,000	
5	Grid frequency	Hz	50	
6	Apparent Power	KVA	45529	
7	Power Factor		0.85	
8	Voltage	kV	11.00	
9	Cooling system	-	AIR COOLED	
10	Excitation	-	Brush	
11	Manufacturing Year	-	1994	
12	Date of readings	-	19 October 2016	
13	Operating Hours	H	168058.0	
14	Number of starts	#	1067	
15	Barring gear Hours	H		

GTG1A

GTG1B

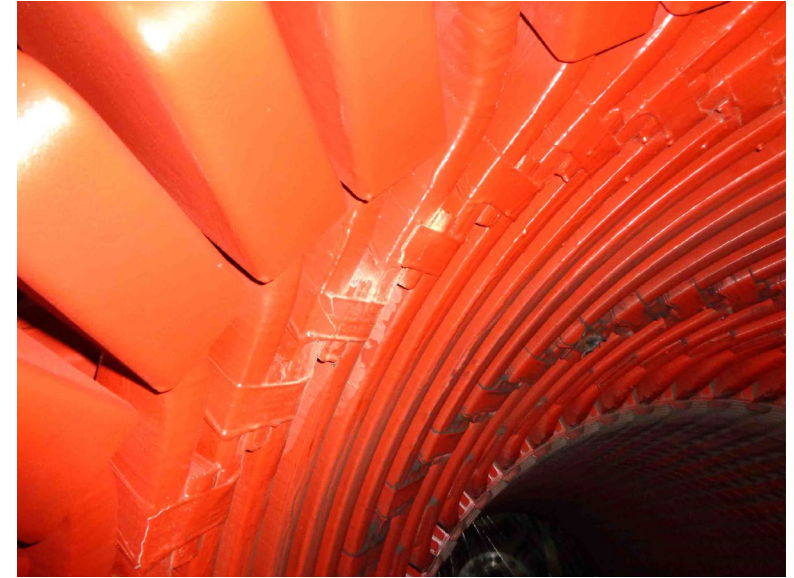
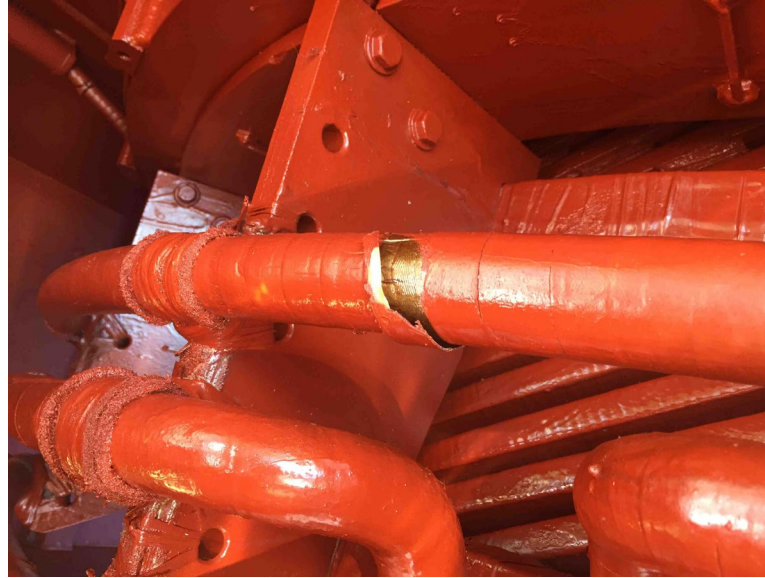
GTG1C

GTG2A

GTG2B

GTG2C

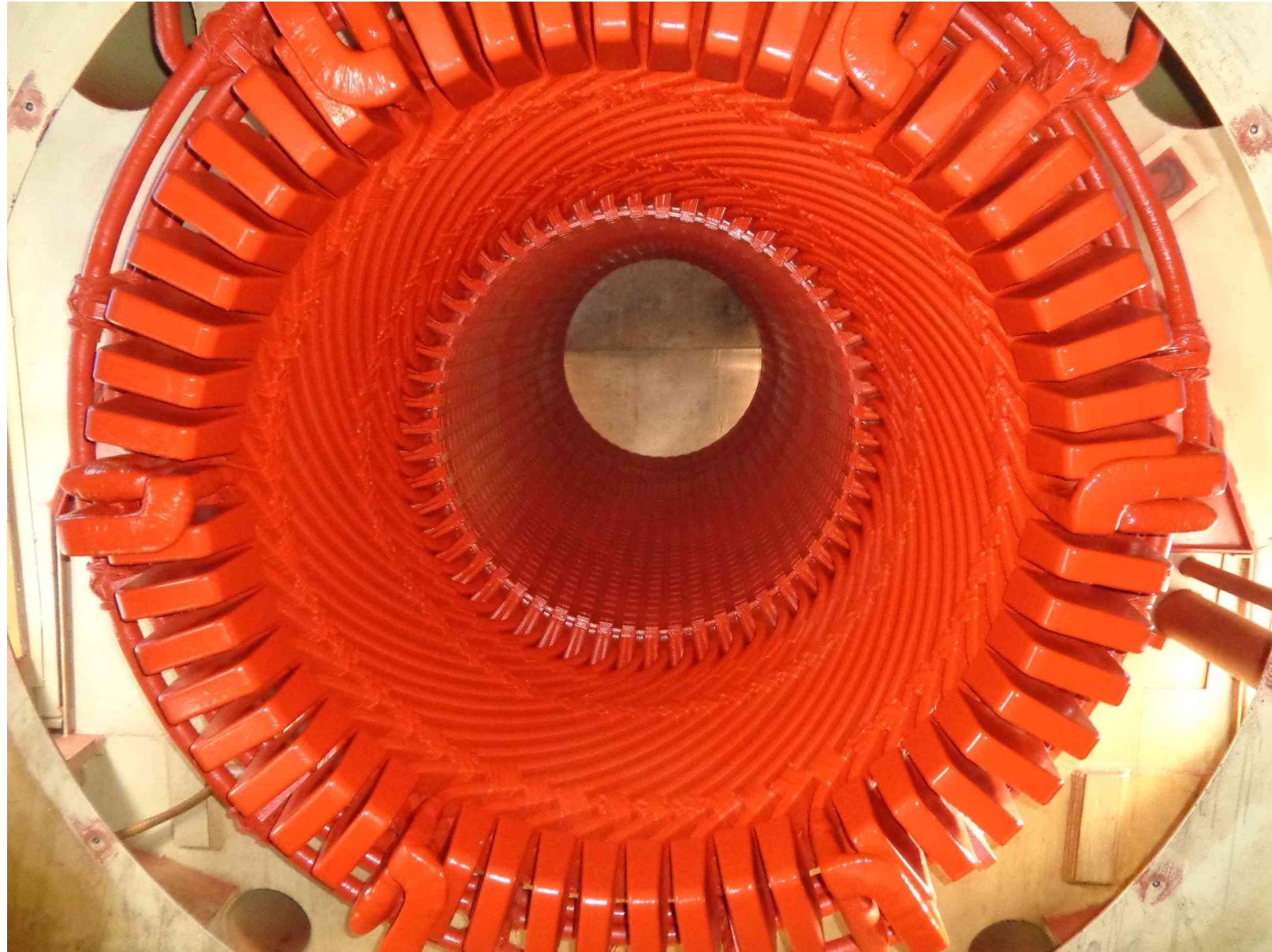
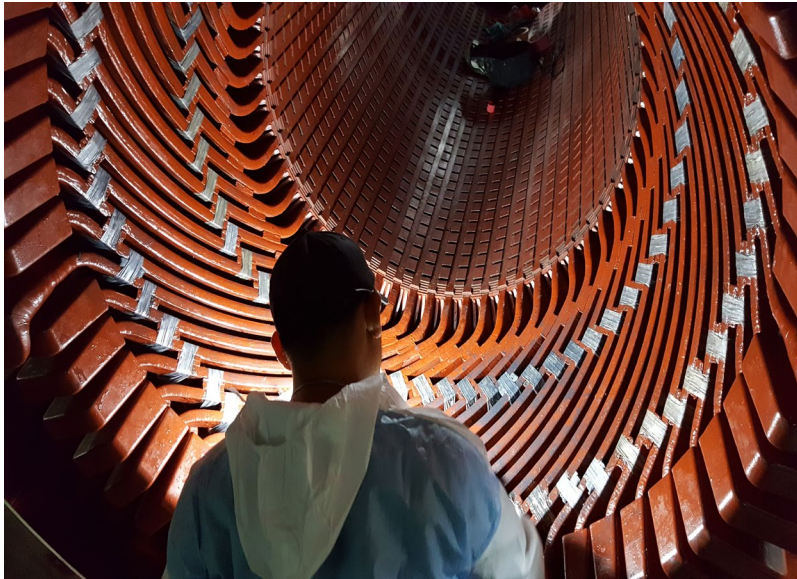
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