



# Bath test 30/05/2016: Results from signal continuity test

Cosimo Cantini Laura Molina Bueno



## 3 chimneys inserted in the top-cap electrically tested





Legends used during the slides:

Warm
Cold 13:10
Fully inmersed 13:25h

Working
Not working



# SGFT 1(3m) 80 cndt WA105

Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	10 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11
12 12 12	12 12 12	12 12 12	12 12 12	12 12 12
13 13 13	13 13 13	13 13 13	13 13 13	13 13 13
14 14 14	14 14 14	14 14 14	14 14 14	14 14 14
15 15 15	15 15 15	15 15 15	15 15 15	15 15 15
16 16 16	16 16 16	16 16 16	16 16 16	16 16 16
17 17 17	17 17 17	17 17 17	17 17 17	17 17 17
18 18 18	18 18 18	18 18 18	18 18 18	18 18 18
19 19 19	19 19 19	19 19 19	19 19 19	19 19 19
20 20 20	20 20 20	20 20 20	20 20 20	20 20 20
21 21 21	21 21 21	21 21 21	21 21 21	21 21 21
22 22 22	22 22 22	22 22 22	22 22 22	22 22 22
23 23 23	23 23 23	23 23 23	23 23 23	23 23 23
24 24 24	24 24 24	24 24 24	24 24 24	24 24 24
<b>25 25 25</b>	25 25 25	25 25 25	<b>25 25 25</b>	25 25 25
26 26 26	26 26 26	26 26 26	26 26 26	26 26 26
<b>27 27 27</b>	27 27 27	27 27 27	<b>27 27 27</b>	27 27 27
28 28 28	28 28 28	28 28 28	28 28 28	28 28 28
29 29 29	29 29 29	29 29 29	29 29 29	29 29 29
30 30 30	30 30 30	30 30 30	30 30 30	30 30 30
31 31 31	31 31 31	31 31 31	31 31 31	31 31 31
32 32 32	32 32 32	32 32 32	32 32 32	32 32 32
33 33 33	33 33 33	<b>33</b> 33 <b>33</b>	33 33 33	33 33 33
34 34 34	34 34 34	34 34 34	34 34 34	34 34 34
<b>35 35 35</b>	35 35 35	<b>35 35 35</b>	35 35 35	<b>35 35 35</b>
<b>36</b> 36 <b>36</b>	36 36 36	36 36 36	36 36 36	<b>36 36 36</b>
<b>37</b> 37 <b>37</b>	37 37 37	37 37 37	<b>37 37 37</b>	37 37 37
38 38 38	38 38 38	38 38 38	38 38 38	38 38 38
39 39 39	39 39 39	39 39 39	39 39 39	39 39 39
40 40 40	40 40 40	40 40 40	40 40 40	40 40 40





Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
Connector 1  1	Connector 2  1	Connector 3  1	Connector 4  1	1 1 1 1 2 2 2 2 3 3 3 3 3 4 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 14 14 14 15 15 15 15 16 16 16 16 17 17 17 18 18 18 18 19 19 19 19 20 20 20 21 21 21 21 22 22 22 22 23 23 23 23 23 24 24 24
26 26 26	26 26 26	26 26 26	26 26 26	26 26 26
27 27 27	27 27 27	27 27 27	27 27 27	27 27 27
28 28 28	28 28 28	28 28 28	28 28 28	28 28 28
29 29 29	29 29 29	29 29 29	29 29 29	29 29 29
30 30 30	30 30 30	30 30 30	30 30 30	30 30 30
31 31 31	31 31 31	31 31 31	31 31 31	31 31 31
32 32 32	32 32 32	32 32 32	32 32 32	32 32 32
33 33 33	33 33 33	33 33 33	33 33 33	33 33 33
<b>34 34 34</b>				



# SGFT 2 80 cndt **WA105**

Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
1 1 1 1 1 2 2 2 2 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 14 14 14 15 15 15 15 16 16 16 17 17 17 18 18 18 18 19 19 19 20 20 20 21 21 21 21 22 22 22 23 23 23 24 24 24 24 25 25 25 26 26 26 26 26 27 27 27 28 28 28 28 29 29 29 30 30 30 30 31 31 31 31	1 1 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7 7 8 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 11 12 12 12 12 13 13 13 13 14 14 14 15 15 15 15 16 16 16 16 17 17 17 18 18 18 18 19 19 19 20 20 20 21 21 21 21 21 22 22 22 23 23 23 24 24 24 24 25 25 25 26 26 26 26 27 27 27 28 28 28 28 29 29 29 30 30 30 30 31 31 31	1 1 1 1 1 2 2 2 2 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 13 14 14 14 15 15 15 15 16 16 16 16 17 17 17 18 18 18 18 19 19 19 19 20 20 20 21 21 21 21 22 22 22 22 23 23 23 24 24 24 24 24 25 25 25 26 26 26 26 27 27 27 28 28 28 28 29 29 29 30 30 30 30 31 31 31	Connector 4  1	1 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 13 14 14 14 15 15 15 15 16 16 16 16 17 17 17 18 18 18 18 19 19 19 20 20 20 21 21 21 21 22 22 22 23 23 23 24 24 24 24 25 25 25 26 26 26 26 27 27 27 28 28 28 28 29 29 29 30 30 30 30 31 31 31 31
32 32 32 33 33 33 34 34 34 35 35 35 36 36 36 37 37 37 38 38 38 39 39 39	31 31 31 32 32 32 33 33 33 34 34 34 35 35 35 36 36 36 37 37 37 38 38 38 39 39 39 40 40 40	32 32 32 33 33 33 34 34 34 35 35 35 36 36 36 37 37 37 38 38 38 39 39 39	32 32 32 33 33 33 34 34 34 35 35 35 36 36 36 37 37 37 38 38 38 39 39 39	32 32 32 33 33 33 34 34 34 35 35 35 36 36 36 37 37 37 38 38 38 39 39 39
40 40 40	40 40 40	40 40 40	40 40 40	40 40 40





Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
1 1 1	1 1 1	1 1 1	1 1 1	1 1 1
2 2 2	2 2 2	2 2 2	2 2 2	1 1 1 2 2 2
3 3 3	3 3 3	3 3 3	3 3 3	3 3 3
4 4 4	4 4 4	4 4 4	4 4 4	4 4 4
5 5 5	5 5 5	5 5 5	5 5 5	5 5 5
6 6 6	6 6 6	6 6 6	6 6 6	6 6 6
7 7 7	7 7 7	7 7 7	7 7 7	7 7 7
8 8 8	8 8 8	8 8 8	8 8 8	8 8 8
9 9 9	9 9 9	9 9 9	9 9 9	9 9 9
10 10 10	10 10 10	<b>10</b> 10 10	10 10 10	10 10 10
11 11 11	11 11 11	11 11 11	11 11 11	11 11 11
12 12 12	<b>12</b> 12 12	12 12 12	12 12 12	12 12 12
13 13 13	<b>13</b> 13 13	13 13 13	13 13 13	13 13 13
14 14 14	14 14 14	14 14 14	14 14 14	14 14 14
<b>15</b> 15 <b>15</b>	<b>15 15 15</b>	<b>15 15 15</b>	15 15 15	15 15 15
<b>16</b> 16 16	<b>16</b> 16 16	<b>16</b> 16 16	<b>16</b> 16 16	16 16 16
17 17 17	<b>17</b> 17 17	<b>17</b> 17 17	17 17 17	17 17 17
18 18 18	<b>18</b> 18 <b>18</b>	<b>18 18 18</b>	18 18 18	18 18 18
19 19 19	19 19 19	19 19 19	<b>19 19 19</b>	19 19 19
20 20 20	20 20 20	20 20 20	20 20 20	20 20 20
21 21 21	21 21 21	21 21 21	21 21 21	21 21 21
<b>22</b> 22 <b>22</b>	22 22 22	<b>22 22 22</b>	<b>22</b> 22 <b>22</b>	22 22 22
<b>23 23 23</b>	23 23 23	<b>23 23 23</b>	<b>23 23 23</b>	23 23 23
24 24 24	24 24 24	24 24 24	<b>24 24 24</b>	24 24 24
<b>25 25 25</b>	<b>25 25 25</b>	25 25 25	<b>25 25 25</b>	<b>25 25 25</b>
26 26 26	<b>26 26 26</b>	<b>26 26 26</b>	<b>26 26 26</b>	<b>26 26 26</b>
<b>27 27 27</b>	27 27 27	<b>27 27 27</b>	<b>27 27 27</b>	<b>27</b> 27 <b>27</b>
28 28 28	28 28 28	28 28 28	28 28 28	28 28 28
29 29 29	29 29 29	29 29 29	29 29 29	29 29 29
30 30 30	30 30 30	30 30 30	<b>30 30 30</b>	<b>30</b> 30 <b>30</b>
31 31 31	31 31 31	31 31 31	<b>31 31 31</b>	<b>31 31 31</b>
32 32 32	32 32 32	32 32 32	<b>32</b> 32 <b>32</b>	<b>32</b> 32 <b>32</b>
33 33 33	33 33 33	33 33 33	<b>33</b> 33 <b>33</b>	<b>33 33 33</b>
<b>34 34 34</b>	<b>34 34 34</b>	<b>34 34 34</b>	<b>34 34 34</b>	<b>34 34 34</b>



# SGFT 3 80 cndt **WA105**

Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
Connector 1  1	Connector 2  1	Connector 3  1	Connector 4  1	Connector 5  1
30 30 30 31 31 31 32 32 32 33 33 33	30 30 30 31 31 31 32 32 32 33 33 33	30 30 30 31 31 31 32 32 32 33 33 33	30 30 30 31 31 31 32 32 32 33 33 33	30 30 30 31 31 31 32 32 32 33 33 33
34 34 34 35 35 35 36 36 36 37 37 37 38 38 38	34 34 34 35 35 35 36 36 36 37 37 37 38 38 38	34 34 34 35 35 35 36 36 36 37 37 37 38 38 38	34 34 34 35 35 35 36 36 36 37 37 37 38 38 38	34 34 34 35 35 35 36 36 36 37 37 37 38 38 38
39 39 39 40 40 40	38 38 38 39 39 39 40 40 40	39 39 39 40 40 40	39 39 39 40 40 40	39 39 39 40 40 40

### WA105 <

Connector 1	Connector 2	Connector 3
1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11	1 1 1 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11	1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 9 9 9 10 10 10 11 11 11
	The second second	



We realize one connector of the CRP was not soldered. David soldered it in place because was not possible to remove it. After this we found only 3 dead channels: 2 signal and 1 ground channels.

Connector 4 Connector 5



### WA105

Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 13 14 14 14 15 15 15 15 16 16 16 16 17 17 17 18 18 18 18 19 19 19 19 20 20 20 20 21 21 21 21 22 22 22 22 23 23 23 23 24 24 24 24	1 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 13 14 14 14 15 15 15 15 16 16 16 16 17 17 17 18 18 18 18 19 19 19 19 20 20 20 21 21 21 21 22 22 22 22 23 23 23 23 24 24 24	1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 13 14 14 14 15 15 15 15 16 16 16 17 17 17 18 18 18 18 19 19 19 19 20 20 20 20 21 21 21 21 22 22 22 22 23 23 23 23 24 24 24	1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 13 14 14 14 15 15 15 15 16 16 16 17 17 17 18 18 18 18 19 19 19 19 20 20 20 20 21 21 21 21 22 22 22 22 23 23 23 23 24 24 24	1 1 1 1 1 2 2 2 2 3 3 3 3 4 4 4 4 4 5 5 5 5 6 6 6 6 7 7 7 7 8 8 8 8 9 9 9 9 10 10 10 11 11 11 11 12 12 12 12 13 13 13 14 14 14 15 15 15 15 16 16 16 17 17 17 18 18 18 18 19 19 19 19 20 20 20 20 21 21 21 21 22 22 22 23 23 23 23 24 24 24
25 25 25	25 25 25	25 25 25	25 25 25	25 25 25
26 26 26	26 26 26	26 26 26	26 26 26	26 26 26
27 27 27	27 27 27	27 27 27	27 27 27	27 27 27
28 28 28	28 28 28	28 28 28	28 28 28	28 28 28
29 29 29	29 29 29	29 29 29	29 29 29	29 29 29
30 30 30	30 30 30	30 30 30	30 30 30	30 30 30
31 31 31	31 31 31	31 31 31	31 31 31	31 31 31
32 32 32	32 32 32	32 32 32	32 32 32	32 32 32
33 33 33	33 33 33	33 33 33	33 33 33	33 33 33
34 34 34	34 34 34	34 34 34	34 34 34	34 34 34



### **Conclusions**

- ➤ The result of the bath test was successful. Same results obtained from the electrical test in cold.
- ➤ We will investigate the different dead channels to understand the problem of these channels.