

Preliminary Report about corrosion in pmts.

During the current month of January, a batch of 10 pmts were cleaned. This work was done as always by the night watchman at night.

It is observed:

3 pmts with only oxidation in the pins.


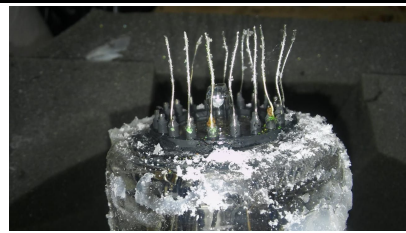
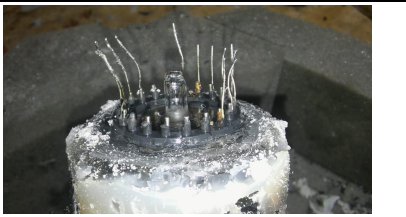
1 pmt with sulfate and oxides




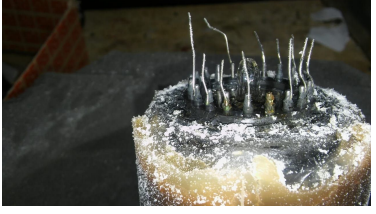

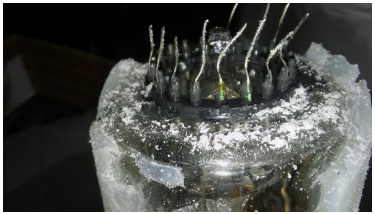
3 pmts with only sulphate

3 pmts without oxide or sulfate (Number 6276, 2654 and 8168)

It should be noted that the three pmts that do not present corrosion had passed in previous years throughout the maintenance process in SDECo, where the pins were protected with lacquer. Subsequently, these pmts were placed again in the field. After some time they had failures in the HV module of the electronics and were removed again from the field due to this failure.

It is interesting to observe these cases as they clearly demonstrate the effectiveness of the anti-corrosion treatment practiced in the maintenance carried out in SDECo.

PMT	SD/position/date	PIN Number Oxide /sulphate	OBSERVATIONS	
6276	Romina (ID 1288) #3 06/02/2009		Very clean, without oxidation. Was stored in SDECo since 2009.	
6369	Selessie (ID 1423) #2 28-11-2018	7-8-9-12 oxidation and sulfate	When removing the neck, the pins get out of the base	
4786	Rosario (ID 954) #3 15-03-2018	7-13 oxidation		

7075	Emil (ID 1614) #1 29-11-2018	9-10-12 sulfate 1/18		
2654	Kiko (ID 423) #2 27-11-2018		Very clean pins. The pins were protected. First arrival at SDEco: 22/10/2014 Delivered to field: 19/05/2015 Last arrival: 27/11/2018	
2275	Alejandro (ID 441) #2 22-03-2018	11-14 Oxidation		
1882	Kiko (ID 423) #1 27-11-2018	8 -9-11 Oxidation		
8168	Track Jr. #2 23-04-2018		Very clean pins First arrival at SDEco: 20/04/2012 Delivered to field: 22/11/2016 Last arrival: 23/04/2018	
6685	Dante (ID 1451) #1 19-04-2018	11-12 sulfate		
7634	Vale (ID 1286) #1 10-09-2018	9-13 sulfate		