OIL & NATURAL GAS CORPORATION (WOU) KARMACHARI SANGHTANA

AFFILIATED TO - PETROLIUM & GAS WORKERS' FEDERATION OF INDIA

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REF. : ONGC/KS/615/2019

DATE : 17/06/2019

To,
The ED - Plant Manager,
ONGC - WOU,
Uran Plant, Uran,
Dist. Raigad.

d/c

Subject : Immediate replacement of Old Electrical Panels to avoid recurrence of electrical accidents in the Uran Plant.

Respected Sir,

This has reference to the accident occurred in LPG Uran Plant on **13th May 2019** at 17:00 hrs, where in **Shri. Hemant Dinanath Thali, CPF No. 93022** got serious burn injuries on his face, was admitted in "National Burn Centre", Airoli, Navi Mumbai. He was admitted in the Hospital for 17 days & was discharged on 30 May 2019. Seriousness of the injury can be gauged as it took more than two weeks to recover, of course the scars psychological and physical is yet to desert him, this demands a critical analysis of the set back on work attitude on him as well as others working on such panels.

The accident took place at LPG-I Substation. After completion of repair of motor P-320 A at LPG - I field area to put ON the power Shri Hemant Thali released the lock out, he put on the HRC (High Rupturing Capacity) fuses in the Electrical Panel. At the time of putting HRC fuses Electrical spark took place & fumes came on his face, causing serious burns on his face & hand. Normally HRC (High Rupturing Capacity) fuses never breaks; but HRC fuse totally damaged in to two pieces. This was second such incident within six months.

The first incident happened on 17 December 2018 at 18:00 Hrs. in Utility Substation MCC No.390. While starting IG compressor there was flashover in its Electrical Module. The module was badly carbonized due to flashover.

Sir, above mentioned two incidents are examples of inadequate Electrical Panels. **Most of the Electrical Panels are very old they have lived more than their designed life and have completed more than 25 Years.** They often fail or malfunction because of Load Variation & Electrical Surge. It need not be elaborated that such Electrical Panels are dangerous and most unpredictable during Operational activities.

... 2

Usually Electrical Panel manufactures are designing the panels and circuit breakers at a specific tolerance to 'trip' or 'Turn Off' an electrical circuit if overloaded. Over a period of continuous use, electrical panels and circuit breakers, loses their designed factory tolerances and are unable to handle the electrical loads required. The Electrical Panels and the Electrical Systems in the infrastructure needs to be replaced immediately.

The details of the Electrical panels which needs immediate replacement are as mentioned below, we also request your esteemed authority to constitute a fact finding enquiry committee of appropriate authorities to ensure the under mentioned panels have over lived their designed age, and are quite vulnerable.

No.	Location	Electrical Panel Name / No.
1	LPG-I Substation	MCC-D1, MCC-D2, L & A Board, DC 110 Volt Distribution Panel.
2	LPG-II Substation	MCC D-51 & 52, MCC D-53 & 54, MCC D-55 & 56, MOV DB.
3	MINAS Substation	LT MCC 71 & 72, Minas Substation Electrical Panels door not getting close. Latches broken.
4	LSV	MCC D4 & D5, HSVR Panel , L & T MCC (D - 01)
5	Terminal	MCC-1 (MOV MCC)
6	EPTP	MCC (EPTP)
7	NBPH	MCC C-03, D3-Extension Panel

Sir, the above-mentioned accidents happened because all electrical panels are very old and are overdue for replacement. Shri. Hemant D. Thali could survive because his luck favored him, otherwise fatal accident could have happened. Its most unfortunate to quote we will be forced not to remain as constitutional in our approach in resolving the crisis if there is any recurrence of such accidents endangering the life of our highly experienced human resources.

Your esteemed authority is requested to kindly direct the concerned department to initiate procurement of new panels more technically equipped and with more safe handling systems for immediate replacement of the existing Electrical Panels to avoid further fatal accidents in Uran Plant.

Thanking You,
Yours faithfully,

d/c

(Pradeep Mayekar)
General Secretary

Copy to :

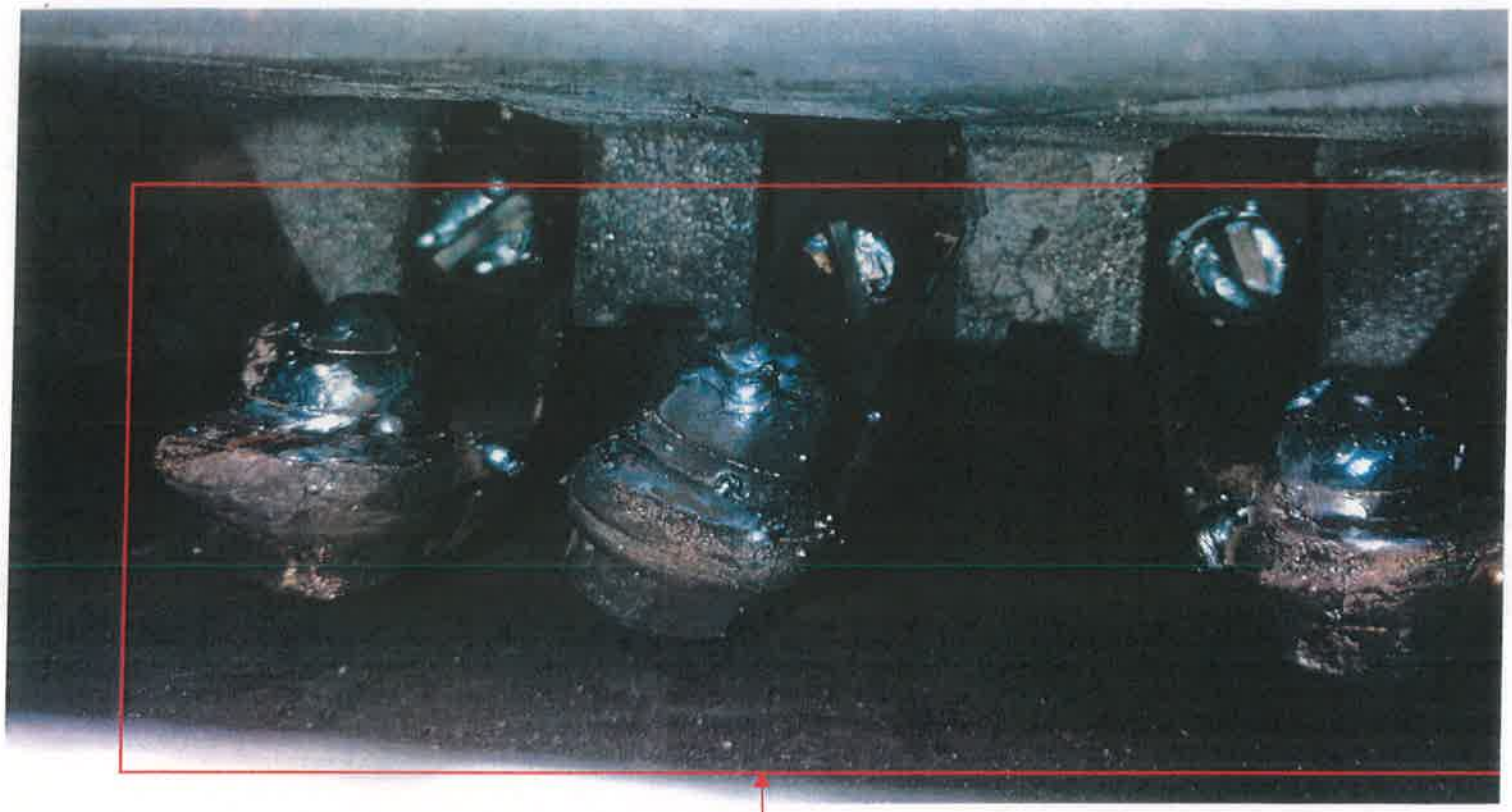
1) Director - Offshore, ONGC, PDDU Urja Bhavan, Vasant Kunj, New Delhi
2) CGM (Electrical), ONGC WOU, LPG Plant, Uran, Raigad.
3) GM (M) I/c Safety, ONGC WOU, LPG Plant, Uran, Raigad.
4) GM (HR) I/c HR-ER, ONGC WOU, LPG Plant, Uran, Raigad.
5) GM I/c - IR, ONGC WOU, NBP Green Heights, Bandra (E), Mumbai 51.

18/6/15

Pics. Of Electrical Accident happened on 13/05/2019 at LPG- I Substation.

(1)

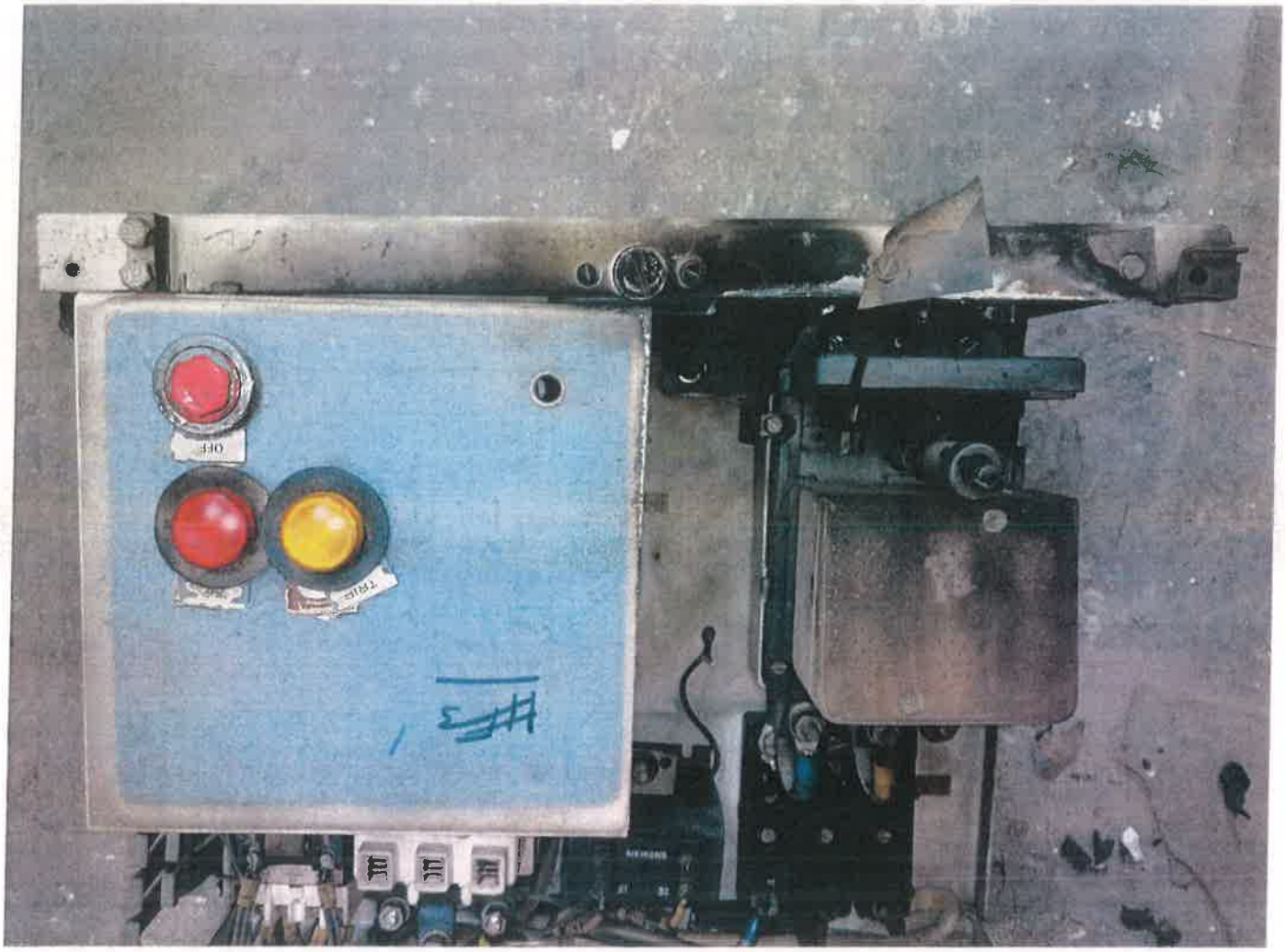
(2)



Melted Terminals of Electrical Module

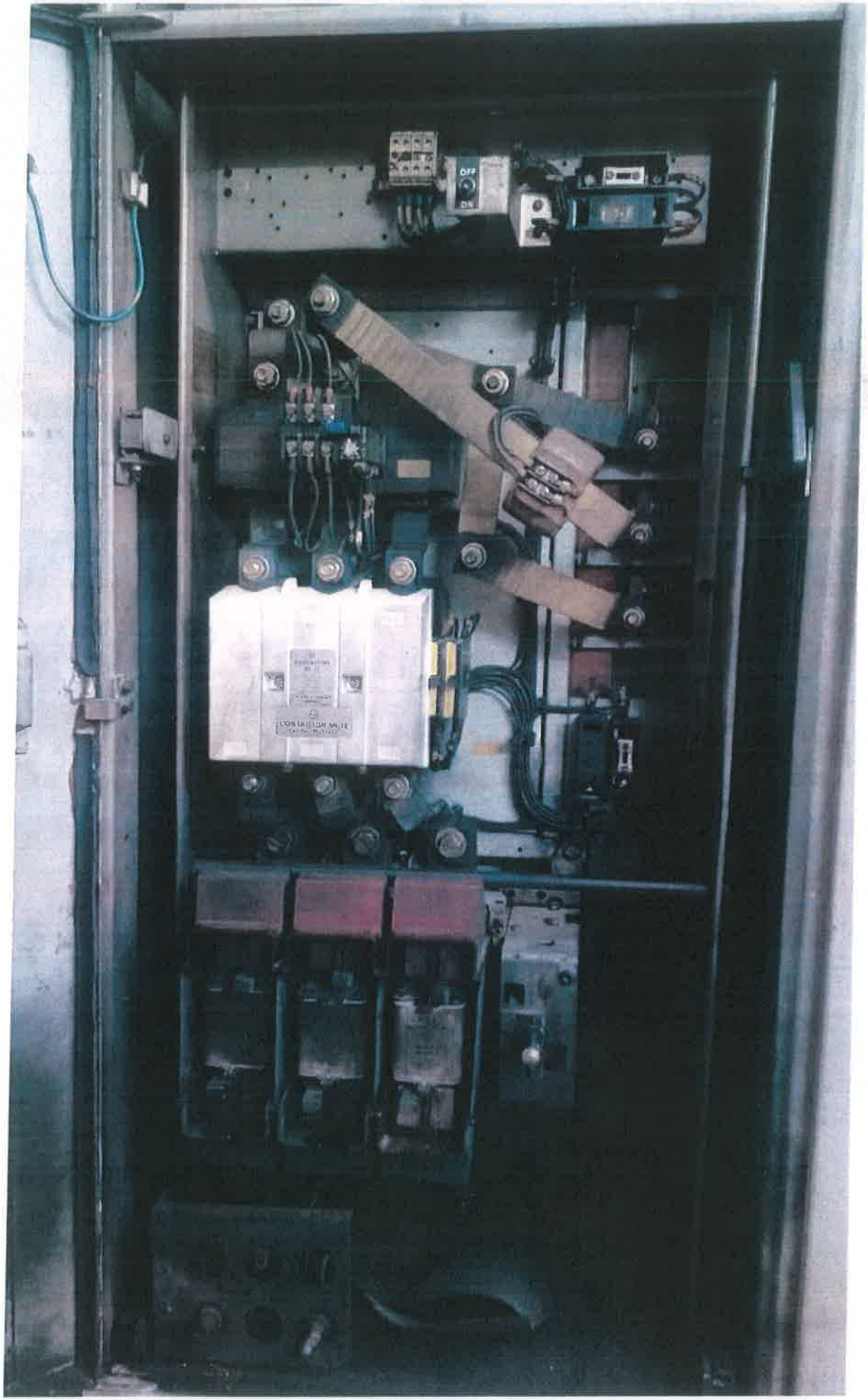
(3)

Broken HRC (High Rupturing Capacity) Fuse

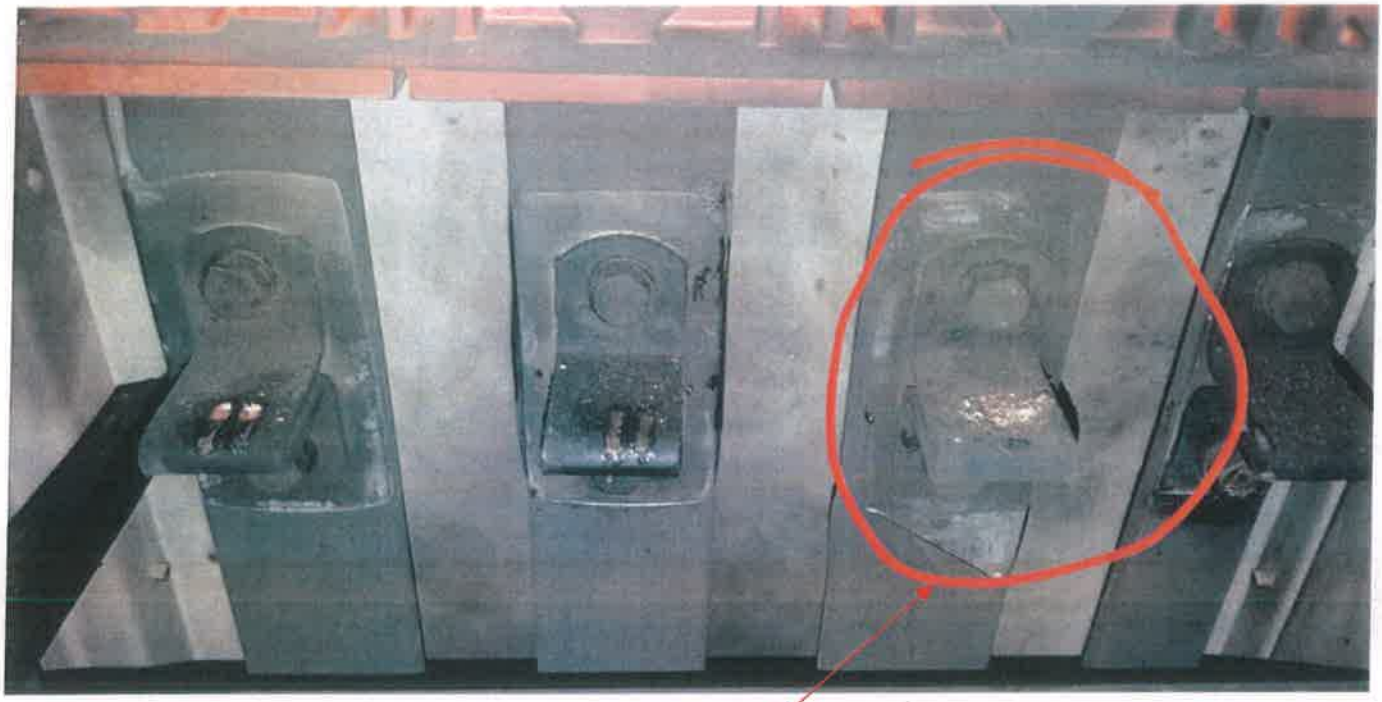

OFF
TRIP

On 17/12/2018 ; 18:00 Hrs at Utility Substation, Flashover in Electrical Module of IG Compressor (MCC No.390)

(1)

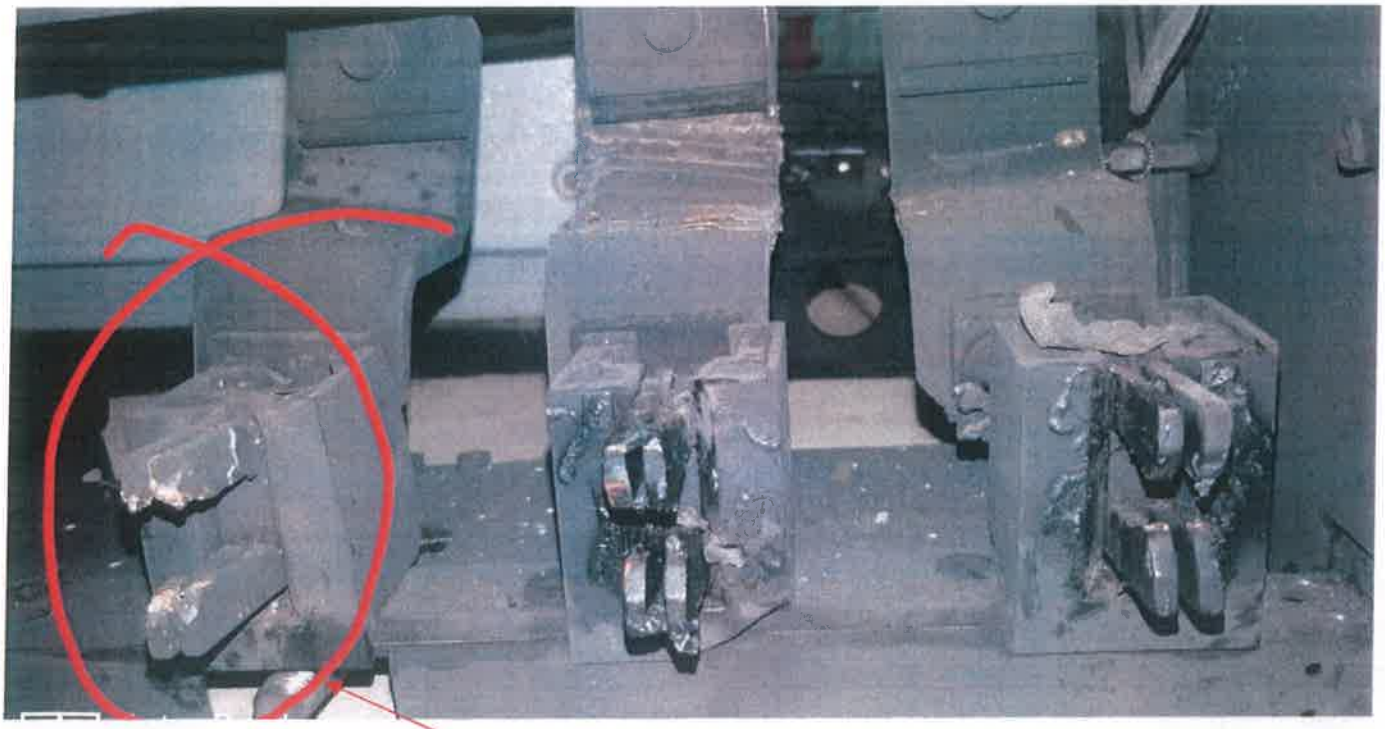


(2)

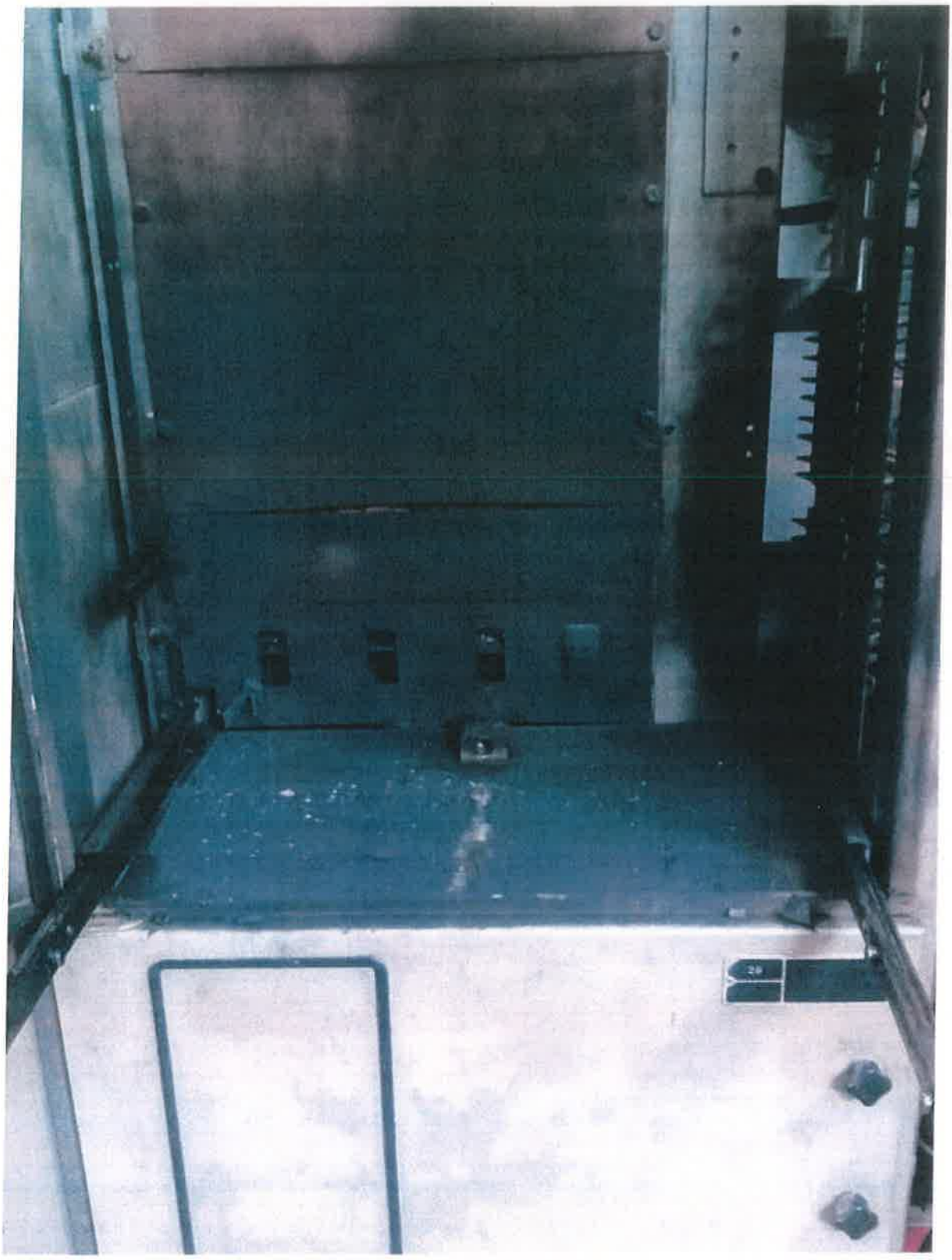


Melted & Burned Electrical Male Contact

(3)



Melted & Burned Electrical Female Contacts



Blackened Electrical Module Compartment due to Flashover