8D Report #145850

Project : Multi-projects impacted

Platform :

Customer :

Supplier: HOPPECKE

Awareness date: 21/10/2019

Opening date : 28/11/2019 **Update date :** 06/10/2021

Closing date: // Step: 4/8

Title:

Quality Alert Change of Ni-Cd cell case material - Hoppecke (battery)

D1	Description		
	Created by GEBSKI Miroslaw on 2019-11-28		
What, Where, How detected	Detected in Riyadh during testing and commissionng trains, by T&C team there is some leakage of electrolyte from plastic cell.		
Why is it a problem	HOPPECKE had sent a quality alert to announce there is a risk with this plastic cell used since 2016 from supplier SCHULMAN: there is Flame retardant V0 into this plastic? and Ni-Cd attacks this flame reatrdant and creates crack. This crack is the cause of electrolyte leakage which some risks to be determined (safety? functionnal? etc)		
How Many Until 28-11-2019 Detected 2 battery units in Riyadh Supplier of battery has provided informations on 27-11-2019 All Batter installed on train + 2 spares. 140 total have to be sent back to Germany for complete rework.			
Objective to be reached	Back to conformity		
Impacted Product (PBS)	1. Trainset/Vehicles 1.H. Auxillary Operation Equipment 1.H.C. Battery Device 1.C.F. External Additions 1.C. Vehicle Fitting out		
FBS			





Picture showing how it should be if OK

	D2	Stakeholders			
Team leader		CHENG Sy-khieng	Safety leader	ROLAND Raoul	
	Distribution List	(jean-marc.dancourt@alstomgroup.com) / CHARCUS (mahaboob-basha.ranipeta@alstomgroup.com) / NYO Irshan (irshan.rizvi@alstomgroup.com) / MUSSA Taha	/ BOSQUILLON Wenceslas (wenceslas.bosquillon@als SET Philippe (philippe.charcusset@transport.alstom.co SA Mateusz (mateusz.nyga-1@alstomgroup.com) / CH/ a (taha.mussa@alstomgroup.com) / MOJ Adam (adam leszek.kurzok@alstomgroup.com) / CHENG Sy-khieng	m) / RANIPETÁ Mahaboob ANAL Didier (didier.chanal@ .moj@alstomgroup.com) / R	
	Region Site Solving France Region Projet				
	Reporting Unit in charge solving the issue	HQ ALSTOM Transport SA FR	Reporting Unit in charge of integration	TRA Katowice PL	

D3	Problem characterization			
Provisional cost > 100K			OTP reference	
Kx classification		K1 Safety	Current score	3
Severity		Catastrophic	Frequency	

Start Date (D4-KPI)	Containement action. 1. Rebuild complete system (baterry unit) n case of defective cells detected (0 Volt, leakage confirmed) First recomendation provided by Supplier Hoppecke 2. Sent back all 140 (138+2) battery units to Hoppecke for complete rework				
Target sta Date	t 2020-05-31				
Start Date (D4-KPI)	2020-05-31				
End of deploymer	t 2020-05-31				
result / nex	Update by CHENG Sy-khieng on 2020-05-31T00:00:00 31/05/20: D4KPI had been performed for all project with colour code of black/Red/yellow colour. 31/03/2020: All insulation measurement activities had been stopped because of COVID 19. PP regiolis had been started and no deviation found. For PP Algeria: found 1 batterie faile (some investigation is ongoing to determine the rootcause) 04/02/202: Master 8D report had been requested to HPK to cover this quality alert. A dedicated 8D shall be set up if the rootcause is deviated from the master rootcause For Riyadh project: a retrofit will be started in week 6 with replacement of new cells 25/01/2020: Priority high: refer to excel file called: "Projects ALSTOM PP-V0 Issue date 24_01_20_TS" ==> an immediat insulation test must be performed for all project identified as RED or BLACK colour code in fighter than 1 and				
List of actions					
No A	ctions (what?)	Resp. action (who?)	Due date (when?)	Date of completion	
1030218 D	the insulation testing per project	CHENG Sy-khieng	2020-02-29	2020-05-31	

D5	Root causes

Progress / result / next steps for deployment	casing material is fulfilling the original specification for the whole lifetime of the pattery linis means that the resistance of the material				
Root causes Occurence					
Root causes Non Detection					
List of actions to deploy the corrective solutions					
No Actions	No Actions (what?) Resp. action (who?) Due date (when?) Completion				
1086116 perform	1086116 perform new fire and smoke qualification testing of Thermofill plastic cell TRAN Thanh-ha 2020-09-30 2021-09-28				

D6	Solution		
What does the solution consist of?	Change of battery case material from Polyflam to Thermofil, the retrofitment start with project identified and critical with colour code black and red.		
Mod reference	eference		
Target start Date 2020-05-31			
Start Date (D6-KPI) 2020-06-08			
% done 5% on			
List of actions to deploy corrective solutions			

No	Actions (what?)	Resp. action (who?)	Due date (when?)	Date of completion
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D7		Rex				
List of recommendations	Update by on					
Plateform concerned by Rex						
Metiers concerned by Rex						
Impacted projects have been notified ?						
List of actions to engrave the lessons learn						
No Actions (what?) Resp. action (who?) Due date (when?) Completion				Date of completion		