


Non-Conformance Report

Customer/ Product/Process/System: Product and System		Report No: CAR_328_2021	
Site: Somerset West		Issue Date: 18/10/2021	
Subject: Propellant Reference Qualification		Initiated By: M Nemadandila Assigned To: E Andersen	
1. Team: E Janse Van Rensburg, E Anderse, T Bokaba, M Nemadandila		CC: B Deez	
2. Problem: N25: Propellant S360 reference qualification failure			
3. Immediate Containment Actions a. Stop production tests		Responsibility	Target Date
		N25	Done
4. Root Cause(s) Identified a. Downward shift in the ballistics performance in the ballistic performance of FL074B13 compared to historical test data b. FL074B13 DPA content was 0.3% below the minimum stabilizer content of 0.8% c. Procedure for new reference qualification not available d. High degree of uncertainty largely due to the extreme variation in chamber pressures obtained from each of the three test barrels – Propellant Lot not homogeneous. e. Sentencing criteria not part of the product specification		4 M's	Faults
		Man	
		Machine	
		Method	X
		Material	X
5. Corrective Action a. Update product specification b. In the interim, use 093B20 as a reference lot c. Ensure that the final lot is performing well within specification before firing it in the barrel d. Use relatively new barrel to release production lots		Responsibility	Target Date
		E Van Rensburg	In process
		N25	Done
		N25	Done
		N25	Done
6. Preventative Action a. Compile a procedure for qualifying new reference b. c. d.		Responsibility	Target Date
		E Andersen	Done
7. Areas for Review and Updating		Complete if Action Needed	Responsibility
a. Documents (e.g. Spec's, instr. Etc.)		<input checked="" type="checkbox"/>	E Van Rensburg
b. Tools		<input type="checkbox"/>	
c. Process methods/ flows, capability		<input type="checkbox"/>	
d. Inspection/ Control Points		<input type="checkbox"/>	
8. Follow Up Remarks		Action Verification	
a.		Initiator Signature:	
b.			
c.		17/03/2022	
d.		Date:	

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<p style="text-align: center;">ADDITIONAL INFORMATION</p> <p>RDM-022013-603 PROCEDURE FOR THE ESTABLISHMENT AND VERIFICATION OF REFERENCE LOTS USED FOR CLOSED VESSEL TESTS</p> <p>RDM-022014-603 PROCEDURE FOR THE ESTABLISHMENT AND VERIFICATION OF REFERENCE LOTS USED FOR SMALL AND MEDIUM ARMS PROPELLANT TESTS</p> <p>S0279-1020401-358 Test Report on S365 Reference Propellant Qualification and Lot Acceptance</p>	
Signatures: Responsible Person: Initiator: 	Date: 17/03/2022 Date: 17/03/2022