PART I - ASSESSMENT

General Details								
Business Unit:	NEBC			Area: Rigel		ITA Reviewer:		
Facility:	Well site	Well site		Location (LSD):		ITA Effective Date:	2/1/2018	
Regulatory Number:	A0138937	A0138937		Tag Number:		Last ITA Review Date:	Click here to enter a date	
Serial Number:	28250.A	28250.A		CRN Number: A7564.2		Design Press/Temp:	250psi @ 115F	
EAM Asset Number	SYSN1012	SYSN1012		Specific Location:	NEBC			
Equipment Description:	Storage Bulle	et						
Equipment Details								
Equipment Class:	⊠ Vessel	□ Exchanger	☐ Boil	Boiler ☐ Fired Heater ☐ Piping System ☐			Tank (Above Ground)	☐ Tank (Below Ground)
Process Fluid	Component	Service Classification		Process Fluid/Gas Comments				
	Shell:	Sweet		Butane				
	Tube (A):	Choose an item:						
	Tube (B):	Choose an item						
	Tube (C):	Choose an item						
Equipment Pictures								
Diedure 4.			Picture	. 0.			Disture 2:	
Picture 1:				2:			Picture 3:	

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Equipment Overview							
Repairs and Alterations	Previous Repairs/Alterations: ☐ Yes ☒ No Details:						
	Anticipated/ Possible Repairs:	☐ Yes ☒ No	Details:				
	Scheduled Repairs/Alteration/ Decommissioning Plan:	□ Yes ⊠ No	Details:				
Equipment History	Number of Years in Service: 1987						
(History starting with most recent or current activities)	 2018 02 (VE) - No issues. 2018 02 (UT) - No major loss concerns. 2014 07 (VE VI) - No issues noted. 						
(Detail equipment history for inspections, repairs, NDE, etc.)							
Corrosion Mitigation	☐ Corrosion Inhibitor	☐ Operatin	g Procedures	☐ CP (External Sacrificial Anode)	☐ CP (External Impressed Current)		
(Describe activities or	□ CP (Internal Sacrificial Anode) □ CP (Internal Impressed Current) □ Internal Coating						
systems in place to prevent corrosion or failure)	Details:						

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Degradation Mechan	isms		
Potential Degradation Mechanisms	Degradation Mechanism	Consideration	Comments
Based on service seen or anticipated through	General Internal Corrosion	⊠ Yes □ No	
life of equipment)	External Corrosion	☐ Yes ☒ No	
	Corrosion Under Insulation	☐ Yes ☒ No	
	Under-Deposit Corrosion	☐ Yes ☒ No	
	Coating Failure	☐ Yes ☒ No	
	HIC/Sulphide Stress Cracking	☐ Yes ☒ No	
	Stress Corrosion Cracking (other)	☐ Yes ☒ No	
	High Temperature Sulphidation	☐ Yes ☒ No	
	Fatigue (Cyclic or Vibrating Service)	⊠ Yes □ No	
	Creep Damage (High temperatures, flame impingement)	☐ Yes ☒ No	
	Dynamic Stresses (firetubes, equipment subject to slugging)	☐ Yes ☒ No	
	Erosion (or velocity induced corrosion – corrosion / erosion)	☐ Yes ⊠ No	
	Biological Corrosion	☐ Yes ☒ No	
	Mechanical Stresses (settling vessel or piping connected to nozzles)	☐ Yes ⊠ No	
	Other:	☐ Yes ☒ No	
	Other:	☐ Yes ☒ No	

emaining Life	Location of part of the vessel being assessed (use worst case): Point 95							
Assessment: (Use Worst Case)	Material:			ole e (psi)	ASME Code Edition: <2001			
	Minimum Actual Thickness: (measured or estimated) 3.2mm			Required Thickness: 1.59mm				
	Remaining Thickness: (actual – required) 1.61n	nm	Corrosion Rate: (higher of STCR or LRCR) 2mpy worst case expected.					
	Remaining Life (RL): >22y		½ Remaining Life (RL): >11y					
	Note: Thorough inspection should not exceed ½ RL, unless ½ RL is less than 2; then the inspection interval can be equal to the Remaining Life up to a maximum of 2 years							
	Comments:							
Thorough Inspection Interval (based on ABSA AB- 506 – Inspection and Servicing Requirements for Pressure Equipment Guidelines)	AB-506 Ed. 2 Rev. 3 Type of Equipment (Appendix A):			Grade Assigned:	2			
	API 510 Alternative Rule Type of Equipment Choose an item (Ref. AB-506 Appendix B):			Risk Classification (Ref. AB-506 Appendix B: Choose an item				
	Thorough Inspection Type: Internal			Maximum Thorough Inspection Interval Assigned: 5				
	Justification for Grade Assignment and Interval: Max internal applied							

Inspection Plan Schedule							
Type of Inspection	Required	Last Date Completed	Last Assessed Report No.	Next Interval (months)	Next Due Date	Comments	
Integrity Thorough Assessment (ITA)	⊠ Yes □ No	2/1/2012	A0138937 Master (ITA)	60	2/1/2019		
Internal Inspection	⊠ Yes □ No			60	2/1/2019		
External Inspection	⊠ Yes □ No	2/1/2018	A0138937 2018 02 (VE)	60	2/1/2023		
Partial/Limited Internal Inspection	☐ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
UT Corrosion Survey	⊠ Yes □ No	2/1/2018	A0138937 2018 02 (UT)	60	2/1/2023		
MT/WFMT	⊠ Yes □ No			60	2/1/2019		
PT (LPI)	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Shear Wave UT	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Automated / Phased Array UT	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Eddy Current	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Boroscope	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Hydrotest/Leak Test	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Other:	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Other:	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date		
Note: The Integrity Thorough Assessment (ITA) due date MUST be set to match the next significant inspection activity.							

PART II – PLANNING

General Details							
Business Unit:	NEBC		Area: Rigel		ITA Reviewer:		
Facility:	Well site		Location (LSD):		ITA Effective Date:	2/1/2018	
Regulatory Number:	A0138937		Tag Number:		Last ITA Review Date:	Click here to enter a date	
Serial Number:	28250.A		CRN Number:	A7564.2	Design Press/Temp:	250psi @ 115F	
EAM Asset Number	SYSN1012		Specific Location:	pecific Location: NEBC			
Equipment Description:	Storage Bullet						
Inspection Task Planni	ing						
Equipment Preparation (detail cleaning, access and inspection preparation requi		Open, clean, Buff welds					
Details and Special Requi	ails and Special Requirements						

Inspection and Test Plan (ITA) Sign-Off							
This section is to be signed off whenever the ITA is updated. The review and sign-off is to be completed by the Asset Integrity Coordinator or Chief Inspector.							
ITA Approved By:	Name	4/14/2018 Date	Signature				

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Recommendations and Cautions