

PART I - ASSESSMENT

General Details								
Business Unit:	NBEC	NBEC		Area:	Oak		ITA Reviewer:	Aaron Allison
Facility:	Wellsite			Location (LSD):	05-28-086-18	N6	ITA Effective Date:	1/1/2014
Regulatory Number:	A0136622			Tag Number:	24341		Previous ITA Review Date:	Click here to enter a date
Serial Number:	27794A			CRN Number:	C4936.2		Design Press/Temp:	250psi @ 150F
EAM Asset Number:	21828		:	Specific Location:	NBEC Field Site			
Equipment Description:	Butane Stora	ge Bullet						
Equipment Details								
Equipment Class:	⊠ Vessel	☐ Exchanger	□ Boil	er 🗆 Fired Hea	ter 🗆 P	iping System	☐ Tank (Above Ground)	☐ Tank (Below Ground)
Process Fluid	Component	Service Classificati	on	Process Fluid/Gas		Comments		
	Shell:	Sweet		Butane				
	Tube (A):	Choose an item						
	Tube (B):	Tube (B): Choose an item						
	Tube (C):	Choose an item						
Equipment Pictures	Equipment Pictures							
Bioture 4. Overview			Dietura	2. Nomonlate			Dieture 2:	
Picture 1: Overview			Picture	2: Nameplate			Picture 3:	



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:	Number of Years in Service: 1985			
(History starting with most recent or current activities)	2014 01 (VE UT) - no external issues, all shell points above nominal				
(Detail equipment history for inspections, repairs, NDE, etc.)					
Corrosion Mitigation	☐ Corrosion Inhibitor	☐ Operatin	ng Procedures	☐ CP (External Sacrificial Anode)	☐ CP (External Impressed Current)
(Describe activities or	☐ CP (Internal Sacrificial Anode) □ CP (Inte	rnal Impressed Current)	☐ Internal Coating	
systems in place to prevent corrosion or failure)	Details:				



Degradation Mechanisms						
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				



Inspection Plan Schedule							
Remaining Life	Location of part of the vessel being asse	cation of part of the vessel being assessed (use worst case): Point 30					
Assessment: (Use Worst Case)				ole e (psi)	ASME Code Edition:		
	Minimum Actual Thickness: (measured or estimated) 0.130"			Required Thickness: 0.100"			
	Remaining Thickness: 0.030"		Corrosion Rate: (higher of STCR or LTCR) 2.5mpy				
	Remaining Life (RL): 12 year	s	½ Remainin	g Life (RL): 6 years			
	Note: Thorough inspection should not e	xceed ½ RL, unless ½ RL is less th	an 2; then the	e inspection interval can be equal to	the Remaining Life up to a maximum of 2 years		
	Comments:	Comments:					
Thorough Inspection Interval	AB-506 Type of Equipment (Appendix A):	PG plant storage vessels and	Grade Assigned: 3		3		
(based on ABSA AB- 506 – Inspection and Servicing	API 510 Alternative Rule Type of Equipment N (Ref. AB-506 Appendix B):	//A		Risk Classification (Ref. AB-506 Appendix B:	N/A		
Requirements for Pressure Equipment Guidelines)	Thorough Inspection Type: O	On-stream	Maximum Thorough Inspection Interval Assigned: 5		5		
Justification for Grade Assignment and Interval: Max on stream							
Equipment suitable for continued service?		☐ Fit for continued service	☐ Not fit for continued service (if not, explain)				



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	Click here to enter a date	A0136622 Master (ITA)	60	1/1/2019	
Internal Inspection	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date	
External Inspection	⊠ Yes □ No	1/1/2014	A0136622 2014 01 (VE UT)	60	1/1/2019	
Partial/Limited Internal Inspection	□ Yes □ No	Click here to enter a date			Click here to enter a date	
UT Corrosion Survey	⊠ Yes □ No	1/1/2014	A0136622 2014 01 (VE UT)	60	1/1/2019	
MT/WFMT	□ Yes ⊠ No	Click here to enter a date			Click here to enter a date	
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:	NBEC	Area:	Oak	ITA Reviewer:	Aaron Allison
Facility:	Wellsite	Location (LSD):	05-28-086-18W6	ITA Effective Date:	1/1/2014
Regulatory Number:	A0136622	Tag Number:	24341	Previous ITA Review Date:	Click here to enter a date
Serial Number:	27794A	CRN Number:	C4936.2	Design Press/Temp:	250psi @ 150F
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Equipment Description:	Butane Storage Bullet				

Inspection Task Planning	
Equipment Preparation (detail cleaning, access and general inspection preparation requirements)	No special prep
Details and Special Requirements	VE, UT
Recommendations and Cautions	

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:	Aaron Allison Name	1/4/2017 Date	Aaron Allison Signature		