



PRESSURE VESSEL DATA:

COMPANY:	BP CANADA ENERGY COMPANY	LOCATION	BP CHINCHAGA GAS PLANT
FACILITY:		LSD:	01-24-096-05W6M
VESSEL NAME:	DESICCANT TOWER B (NIS)		
FACILITY VESSEL IDENTIFICATION:		MAINTENANCE NO. (Maximo):	
IS VESSEL ASSOCIATED WITH A COMPRESSOR?	Yes	No	
ORIENTATION:	Horizontal	Vertical	Sphere
SEPARATOR TYPE (if applicable):	2 Phase	3 Phase	N/A
STATUS:	In Service		
DIRECT FIRED VESSEL:	Yes	No	MANWAY:
THERMAL INSULATION:		Internal Access Through:	

NAME PLATE:

JURISDICTION NUMBER :	A0146858	CRN NUMBER:	D3193.2
BP TAG NUMBER:	V-301B	N. BOARD NUMBER:	
VESSEL SERIAL NUMBER:	79-087-05B	CAPACITY (Volume):	NS
DRAWING NUMBER:		CHANNEL MATERIAL:	in. NS N/A
CHANNEL THICKNESS:		HEAT TREATMENT:	
CODE PARAMETERS:	U, UW, UM	JOINT EFFICIENCY (J.E.):	NS
MANUFACTURER:	KML CUSTOM FABRICATORS	YEAR BUILT:	1979

INSULATION / COATING

DESCRIPTION	INTERNAL COATING			EXTERNAL COATING			INSULATION			
	COATED?	THK	TYPE	DATE	COATED?	THK	TYPE	DATE	INSULATED?	DENSITY
	N				N				N	

SHELL STATIC

SHELL	MATERIAL	H.T.	NOMINAL	DIAMETER	LENGTH	C.A.	RT LEVEL
SHELL SIDE 1	SA-51670	Y	3.484 in.	66 in.	in / mm	0.0620 in.	FULL

HEAD STATIC

HEAD	MATERIAL	H.T.	NOMINAL	DIAMETER	C.A.	RT LEVEL
SHELL SIDE 1	SA-51670	Y	2.727 in.	66 in.	0.0620 in.	FULL

DESIGN / OPERATING

DESIGN DESCRIPTION	DESIGN PRESS.	DESIGN TEMP.	OPERATING PRESS.	OPERATING TEMP.	SERVICE
SHELL SIDE 1	1375 PSI	649 °F	PSI / KPa	°F / °C	



PSV NAME PLATE DATA:

	PSV. 1	PSV. 2	PSV. 3	PSV. 4
Tag Number:	3501			
Serial Number:	79C4009			
Inlet Size - (Rating/Type):				
Outlet Size - (Rating/Type):				
Capacity (SCFM) Or	13444 SCFM			
Model Number:	1914GT			
Manufacturer:	CONSOLIDATED			
Set Pressure:	1375 PSI			
Set Date:				
Location:				
CRN:				
Service Interval:				
Service Company:				

POTENTIAL DAMAGE TYPE AND LOCATION:

Fabrication Defects: Thinning (includes general, localized and pitting): Shell, heads and nozzles.High Stress Areas: Subject to cracking, water composition around nozzles, tee joints, attachment and closing welds.Demister Pad: Possible plugging and deterioration.Cracking, Subsurface cracking, Dimensional changes (blistering), Blistering (dimensional changes).

POTENTIAL DAMAGE MECHANISMS:

Fabrication Defects: Nothing Unusual Expected
Corrosion: Crevice/under deposit, pH.
Hydrogen Effects: N/A
Mechanical Effects: None Anticipated
Metallurgical & environmental Effects: None Anticipated

PREVIOUS INSPECTION REPORTS:

INSPECTION METHODS:

UT: Pre-turnaround survey of all TML's identified on the UT drawings. Also thickness readings in areas of corrosion. MPI: As required. VISUAL: Total tower and associated piping. Perform a video inspection on the lower head, shell area and as required.DIMENSIONAL MEASUREMENTS: If blistering, buckling or deformation found.



INSPECTION NOTES:

2005:
INTERNAL:
THE INTERNAL SURFACE WAS NOT EVALUATED DURING THE VISUAL INSPECTION.
PSV:
THE PSV IS NOT SEALED AND THE DISCHARGE PIPING IS PROPERLY VENTED TO THE FLARE.

EXTERNAL:
SHELL CONDITION:
THE EXTERNAL SURFACE OF THIS TOWER IS IN GOOD MECHANICAL CONDITION WITH NO EVIDENCE OF CORROSION.
THE COATING IS IN GOOD CONDITION WITH NO EVIDENCE OF FAILURE.
THE COATING IS CHIPPED AND SCRATCHED.
INSTRUMENTATION CONDITION:
THE ASSOCIATED INSTRUMENTATION IS IN GOOD WORKING ORDER.
INSULATION CONDITION:
THE PIPE CLADDING AND INSULATION ARE IN GOOD CONDITION. THE CLADDING IS SEALED FROM THE WEATHER.
THERE IS SOME MINOR DENTING IN THE CLADDING.
NOZZLE CONDITION:
THE NOZZLES ARE IN GOOD MECHANICAL CONDITION WITH NO MEASURABLE CORROSION ON THE EXTERNAL SURFACES.
THE WEEP HOLES ARE CLEAN AND CLEAR OF PRODUCT AND RUST.
THE RE-PADS AND NOZZLE WELDS ARE IN GOOD CONDITION.
THE RE-PADS AND NOZZLE COATING IS CHIPPED AND SCRATCHED.
FLANGE CONDITION:
ALL ASSOCIATED FLANGES AND BOLTING ARE INTACT AND SHOW NO EVIDENCE OF MECHANICAL DAMAGE, DETERIORATION, VISIBLE CRACKING, PROCESS LEAKS OR CORROSION.
THE FLANGES AND NPT CONNECTIONS ARE IN GOOD MECHANICAL CONDITION WITH NO EVIDENCE OF MEASURABLE CORROSION.
THE FLANGE RATING IS 900#.
PIPING CONDITION:
THE PIPING IS THREADED AND BOLTED.
THE PIPING IS IN GOOD MECHANICAL CONDITION WITH NO MEASURABLE CORROSION.
PIPE SUPPORT CONDITION:
THE ASSOCIATED PIPE SUPPORTS ARE IN GOOD MECHANICAL CONDITION WITH NO EVIDENCE OF ANY MECHANICAL DAMAGE OR DEGRADATION.
BOLTED PIPE FLANGE CONNECTIONS:
THE ASSOCIATED PIPING FLANGE BOLTING AND GASKETS ARE IN PLACE AND TIGHT.
THE BOLTS ARE THE CORRECT LENGTH AND DIAMETER.
THREADED PIPE CONNECTIONS:
THE ASSOCIATED THREADED PIPING IS IN PLACE AND TIGHT.
INSTRUMENTATION:
FOUNDATION CONDITION:
THE TOWER SKIRT, BASEPLATE AND ANCHOR BOLTS ARE IN GOOD CONDITION WITH NO EVIDENCE OF MECHANICAL DETERIORATION.
THE TOWER SKIRT IS ANCHORED TO THE CONCRETE.
THE CONCRETE IS IN GOOD CONDITION.
THE GROUND WIRE IS ATTACHED TO THE VESSEL.
THERE IS SKIRT ACCESS.

RECOMMENDED INSPECTION INTERVALS:

Next UT Creep Wave:	_____	Years:	_____
Next UT Corrosion Survey:	_____	Years:	_____
Next Internal Inspection:		Years:	
Next External Inspection:	06/15/2005	Years:	0 YEARS
Next PSV Service:	PSV ID:	Bench Test Due:	
	SN 79C4009		12/03/2007