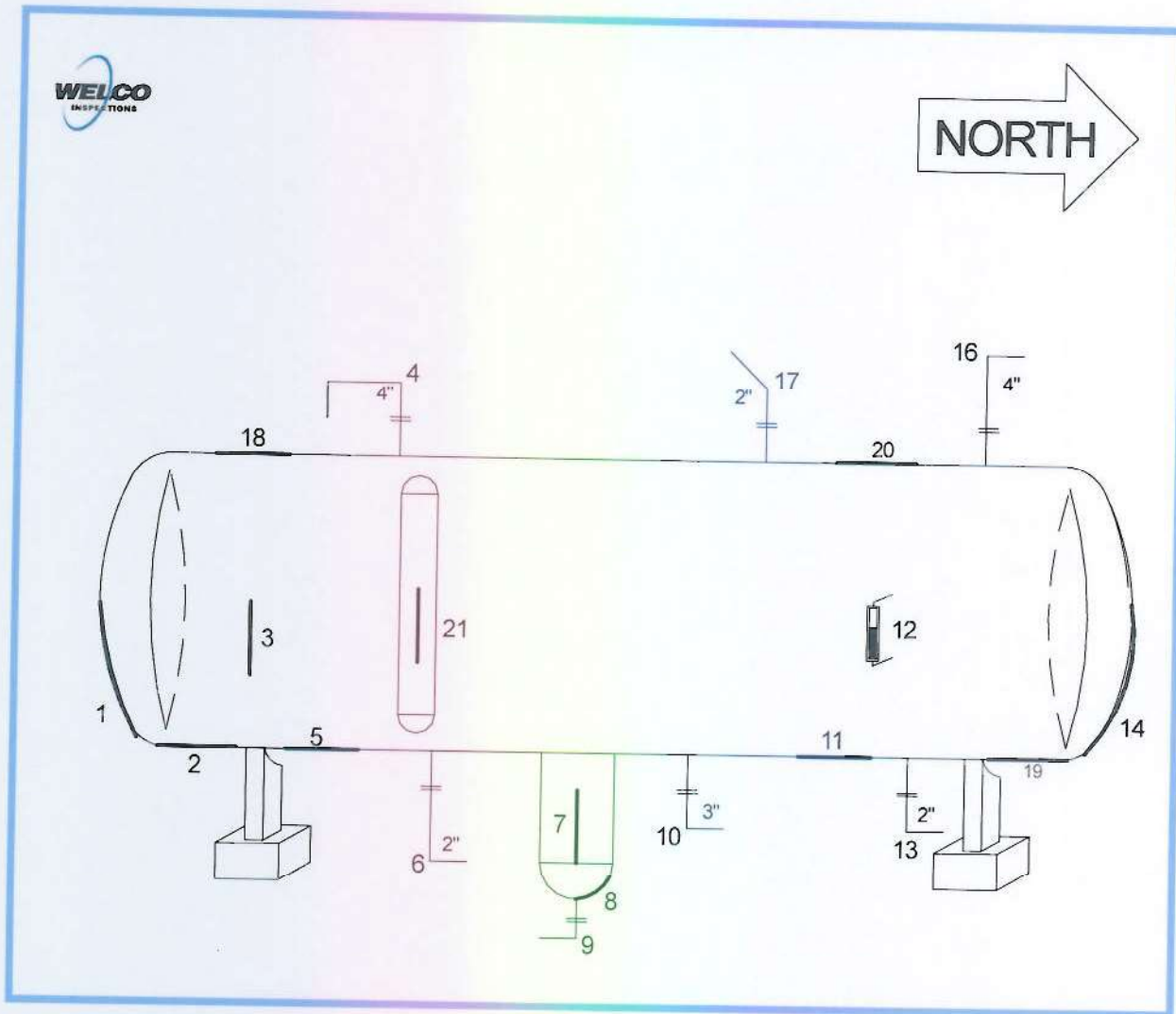


Welco Inspections

Client: **MEC**
 Facility: Chinchaga
 LSD: 11-17-097-06W6
 Description: Separator



Tab #: 38
 Survey Name: Chinchaga
 Reference #: MEC-132
 Date: 18-Dec-07



Vessel Data			
P.E. #:	MEC-132	Reg. #:	0408580
C.R.N.:	R7010.2	Ser. #:	8426
Mfg.:	RJV	Mfg. Date:	2004
Des. Press.:	719 psi	Temp.:	100 F
ID:	0.000 in.	Length:	0.00 ft
Head Mtl.:	SA 516-70	Shell Mtl.:	SA 516-70
Head Nom.:	0.937 in.	Shell Nom.:	1.000 in.
Head C.A.:	0.000 in.	Shell C.A.:	0.000 in.
Head Min.:	0.937 in.	Shell Min.:	0.990 in.

Pipe Data				
Size:	Sch.:	Nom.:	C.A.:	Min.:
in.		in.	in.	in.
4.000	STANDA	0.237	0.000	0.207
2.000	XS	0.218	0.000	0.191
2.000	160	0.344	0.000	0.301
3.000	XS	0.300	0.000	0.263
16.000	80	0.844	0.000	0.738
0.000		0.000	0.000	0.000
0.000		0.000	0.000	0.000
0.000		0.000	0.000	0.000

Welco Inspections

Client: **MEC**
 Facility: Chinchaga
 LSD: 11-17-097-06W6
 Description: Separator



Tab #: 38
 Survey Name: Chinchaga
 Reference #: MEC-132
 Date: 18-Dec-07

Next Survey Due: Triggered By TML #:

TML #: 1 Item: HEAD

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	1.042	0.937	0.000	0.937	0.002	0.000	52	2060	2021
0.000	0.000	1.026	0.937	0.000	0.937	0.002	0.000	44	2052	2019
0.000	0.000	1.030	0.937	0.000	0.937	0.002	0.000	46	2054	2019
0.000	0.000	1.033	0.937	0.000	0.937	0.002	0.000	47	2055	2019

TML #: 10 Item: 3 XS ell

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.280	0.300	0.000	0.263	0.002	0.000	8	2015	2009
0.000	0.000	0.281	0.300	0.000	0.263	0.002	0.000	9	2016	2009
0.000	0.000	0.283	0.300	0.000	0.263	0.002	0.000	10	2017	2009
0.000	0.000	0.284	0.300	0.000	0.263	0.002	0.000	10	2017	2009

TML #: 11 Item: SHELL

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	1.011	1.000	0.000	0.990	0.002	0.000	10	2017	2009
0.000	0.000	1.013	1.000	0.000	0.990	0.002	0.000	11	2018	2009
0.000	0.000	1.011	1.000	0.000	0.990	0.002	0.000	10	2017	2009
0.000	0.000	1.013	1.000	0.000	0.990	0.002	0.000	11	2018	2009

TML #: 12 Item: SHELL

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.994	1.000	0.000	0.990	0.002	0.000	2	2009	2007
0.000	0.000	1.021	1.000	0.000	0.990	0.002	0.000	15	2022	2010
0.000	0.000	1.022	1.000	0.000	0.990	0.002	0.000	16	2023	2011
0.000	0.000	1.022	1.000	0.000	0.990	0.002	0.000	16	2023	2011

TML #: 13 Item: 2 XS ell

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.211	0.218	0.000	0.191	0.002	0.000	10	2018	2010
0.000	0.000	0.209	0.218	0.000	0.191	0.002	0.000	9	2017	2010
0.000	0.000	0.212	0.218	0.000	0.191	0.002	0.000	10	2018	2010
0.000	0.000	0.213	0.218	0.000	0.191	0.002	0.000	11	2019	2010

TML #: 14 Item: HEAD

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	1.025	0.937	0.000	0.937	0.002	0.000	43	2050	2017
0.000	0.000	1.029	0.937	0.000	0.937	0.002	0.000	45	2052	2018
0.000	0.000	1.056	0.937	0.000	0.937	0.002	0.000	59	2066	2021
0.000	0.000	1.072	0.937	0.000	0.937	0.002	0.000	67	2074	2023

Welco Inspections

Client: **MEC**
 Facility: Chinchaga
 LSD: 11-17-097-06W6
 Description: Separator



Tab #: 38
 Survey Name: Chinchaga
 Reference #: MFC-132
 Date: 18-Dec-07

TML #: 15 **Item: 2 XS ell**

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.229	0.218	0.000	0.191	0.002	0.000	19	2026	2011
0.000	0.000	0.230	0.218	0.000	0.191	0.002	0.000	19	2026	2011
0.000	0.000	0.227	0.218	0.000	0.191	0.002	0.000	18	2025	2011
0.000	0.000	0.235	0.218	0.000	0.191	0.002	0.000	22	2029	2012

TML #: 16 **Item: 4 STANDA ell**

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.255	0.237	0.000	0.207	0.002	0.000	23	2030	2012
0.000	0.000	0.256	0.237	0.000	0.207	0.002	0.000	24	2031	2013
0.000	0.000	0.257	0.237	0.000	0.207	0.002	0.000	24	2031	2013
0.000	0.000	0.258	0.237	0.000	0.207	0.002	0.000	25	2032	2013

TML #: 17 **Item: 2 XS ell**

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.218	0.218	0.000	0.191	0.002	0.000	13	2020	2010
0.000	0.000	0.220	0.218	0.000	0.191	0.002	0.000	14	2021	2010
0.000	0.000	0.222	0.218	0.000	0.191	0.002	0.000	15	2022	2010
0.000	0.000	0.217	0.218	0.000	0.191	0.002	0.000	13	2020	2010

TML #: 2 **Item: SHELL**

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.991	1.000	0.000	0.990	0.002	0.000	0	2007	2007
0.000	0.000	1.011	1.000	0.000	0.990	0.002	0.000	10	2017	2009
0.000	0.000	1.011	1.000	0.000	0.990	0.002	0.000	10	2017	2009
0.000	0.000	1.013	1.000	0.000	0.990	0.002	0.000	11	2018	2009

TML #: 3 **Item: SHELL**

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	1.010	1.000	0.000	0.990	0.002	0.000	10	2017	2009
0.000	0.000	1.010	1.000	0.000	0.990	0.002	0.000	10	2017	2009
0.000	0.000	1.009	1.000	0.000	0.990	0.002	0.000	9	2016	2009
0.000	0.000	1.010	1.000	0.000	0.990	0.002	0.000	10	2017	2009

TML #: 4 **Item: 4 STANDA ell**

Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year
/	/	12 / 2007								
0.000	0.000	0.234	0.237	0.000	0.207	0.002	0.000	13	2020	2010
0.000	0.000	0.234	0.237	0.000	0.207	0.002	0.000	13	2020	2010
0.000	0.000	0.234	0.237	0.000	0.207	0.002	0.000	13	2020	2010
0.000	0.000	0.235	0.237	0.000	0.207	0.002	0.000	13	2020	2010

Managed By:

Welco Inspections

Client: **MEC**
 Facility: Chinchaga
 LSD: 11-17-097-06W6
 Description: Separator



Tab #: 38
 Survey Name: Chinchaga
 Reference #: MEC-132
 Date: 18-Dec-07

TML #: 5			Item: SHELL								
Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due	
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year	
/	/	12 / 2007									
0.000	0.000	1.015	1.000	0.000	0.990	0.002	0.000	12	2019	2010	
0.000	0.000	1.016	1.000	0.000	0.990	0.002	0.000	13	2020	2010	
0.000	0.000	1.014	1.000	0.000	0.990	0.002	0.000	12	2019	2010	
0.000	0.000	1.014	1.000	0.000	0.990	0.002	0.000	12	2019	2010	

TML #: 6			Item: 2 XS ell								
Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due	
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year	
/	/	12 / 2007									
0.000	0.000	0.206	0.218	0.000	0.191	0.002	0.000	7	2014	2008	
0.000	0.000	0.208	0.218	0.000	0.191	0.002	0.000	8	2015	2009	
0.000	0.000	0.213	0.218	0.000	0.191	0.002	0.000	11	2018	2009	
0.000	0.000	0.206	0.218	0.000	0.191	0.002	0.000	7	2014	2008	

TML #: 7			Item: 16 80 PIPE								
Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due	
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year	
/	/	12 / 2007									
0.000	0.000	0.894	0.844	0.000	0.738	0.002	0.000	77	2084	2026	
0.000	0.000	0.903	0.844	0.000	0.738	0.002	0.000	82	2089	2027	
0.000	0.000	0.888	0.844	0.000	0.738	0.002	0.000	74	2081	2025	
0.000	0.000	0.882	0.844	0.000	0.738	0.002	0.000	71	2078	2024	

TML #: 8			Item: 16 80 PIPE								
Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due	
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year	
/	/	12 / 2007									
0.000	0.000	0.885	0.844	0.000	0.738	0.002	0.000	73	2080	2025	
0.000	0.000	0.914	0.844	0.000	0.738	0.002	0.000	87	2094	2028	
0.000	0.000	0.957	0.844	0.000	0.738	0.002	0.000	109	2116	2034	
0.000	0.000	0.882	0.844	0.000	0.738	0.002	0.000	71	2078	2024	

TML #: 9			Item: 2 160 tee								
Thickness Data			Nom.	C.A.	Min.	S.C.R.	L.C.R.	Rem. Life	Ret. Date	Due	
in.	in.	in.	in.	in.	in.	in.	in.	years	year	year	
/	/	12 / 2007									
0.000	0.000	0.360	0.344	0.000	0.301	0.002	0.000	29	2036	2014	
0.000	0.000	0.333	0.344	0.000	0.301	0.002	0.000	16	2023	2011	
0.000	0.000	0.339	0.344	0.000	0.301	0.002	0.000	19	2026	2011	
0.000	0.000	0.354	0.344	0.000	0.301	0.002	0.000	26	2033	2013	



Pressure Vessel Inspection Report

Owner/User Inspection Report

Entry Date: 18-Dec-07

Inspection Date: 18-Dec-07

Report Number: 102606

Equipment Number: MEC-132

Vessel Name: Separator

(A) Number: 0488580

Equipment Information:

CRN	R7010.2	Service	Manway?	yes	<input checked="" type="checkbox"/>	no	<input type="checkbox"/>
LSD	11-17-097-06W6	District	Chinchaga	Facility	Chinchaga	Location	11-17 Field

Items from Previous Inspections

Empty box for items from previous inspections

Examination Methods VT-Int. VT UT PT MT RT Other

External Conditions

- Paint ok
- Piping ok
- Pressure gauge operating
- Temperature gauge functioning
- No leakage observed
- Nozzles good
- PSV seal ok
- PSV mounted correctly
- Flanges secure
- Anchor bolts threaded
- Site glass in working order
- Instrumentation ok
- Wall seal ok
- Supports ok
- Saddle ok
- Good external condition.
- No external corrosion visible

Internal Conditions

n/a

Welco Inspections

Client:

MEC Operating



Pressure Vessel Inspection Report

Owner/User Inspection Report

Inspection Date: 18-Dec-07

Report Number: 102606

Equipment Number: MEC-132

Vessel Name: Separator

(A) Number: 0488580

Pressure Tests: Hydro Pneumatic Other

Shell side Tube side

MAWP 719 psi

PRV #	Set Pressure	Capacity	Location
MEC-132	719 psi	5032.00 SCFM	Horizontal 3 Phase Separator
	psi		
	psi		

Inspector: I have witnessed or done the above inspections and do make the following recommendations.

Suitable to be returned to service Yes No

Repairs are still required Yes No

Repairs completed, (AB-40 attached) Yes No N/A

Suggested inspection interval 2 years

Peter Camilleri

18-Dec-07

Inspector

Signature

Date

Chief Inspector: I certify that the information on this report is true and all inspections as required by our Owner/User Quality Assurance Program # NA which expires 01-Jan-10 have been done.

Recommendations:

Suitable for service.

Denton Wood ABSA cert #19

18-Dec-07

Chief Inspector

Signature

Date