Test RTR No.	RTR 225	Cntr. Serial No.	3981101

R7021 THERMAL SURVEY RECORD (Ref. OP 215)

Equipment	
Thermometer: TES 1309 K/J	Calibration Due: 03/10/09

Preparation		
Step	Operation	Result or ✓
1	Prepare flask with thermocouples as in table below.	✓
2	Load basket and record loading plan.	✓

Loading Plan							Activity ref. date:	29/10/08	
Posn. *	Source No.	Content (kCi)	Posn.	Source No.	Content (kCi)	Posn.		Source No.	Content (kCi)
1	769	9,693	17			33			
2	796/606	9,300	18	596/556	9,173	34			
3			19	763	9,555	35			
4	774	9,593	20	760	9,529	36			
5			21			37			
6	764	9,670	22	766	9,593	38			
7	762	9,606	23			39			
8	780	9,504	24	776	10,054	40			
9			25			41			
10	756/696	9,300	26			42			
11			27			43			
12	779	10,022	28			44			
13	767	9,395	29			45			
14	786	9,445	30			46			
15			31			47			
16	782	9,160	32			48			
TOTAL			TOTAL			TOTAL			
* Counting clockwise from notch when viewed from above. Start on the outer ring and move to the inner ring from 30 onwards.						GRAND TOTAL			152,582

Loading and assembly		
Step	Operation	Result or ✓
3	Load flask using spacers under closure to allow leads to exit flask and assemble into transport crate.	✓
4	Site container in area not less than 3.6 m square, free from continuous drafts and with a stable ambient temperature.	✓

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Thermocouples

Identity	Location	Drg./Part No.	Adhesive
X1	Dummy R2089 #1, 280mm from bottom, equi-spaced	R8096/301	Braze
X2	Dummy R2089 #1, 280mm from bottom, equi-spaced		
X3	Dummy R2089 #1, 280mm from bottom, equi-spaced		
Y1	Dummy R2089 #2, 280mm from bottom, equi-spaced	R8096/301	Braze
Y2	Dummy R2089 #2, 280mm from bottom, equi-spaced		
Y3	Dummy R2089 #2, 280mm from bottom, equi-spaced		
Z1	Dummy R2089 #3, 280mm from bottom, equi-spaced	R8096/301	Braze
Z2	Dummy R2089 #3, 280mm from bottom, equi-spaced		
Z3	Dummy R2089 #3, 280mm from bottom, equi-spaced		
A1	Cavity wall, 50mm below top, equi-spaced	12-K-2000-118-0.5-21-3P2LB-2MTRS C40KX	Silver-loaded epoxy- RS 186-3616
A3	Cavity wall, 50mm below top, equi-spaced		
B1	Cavity wall, mid-height, equi-spaced		
B2	Cavity wall, mid-height, equi-spaced		
B3	Cavity wall, mid-height, equi-spaced		
B4	Cavity wall, mid-height, equi-spaced		
C1	Cavity wall, 50mm above base, equi-spaced		
C3	Cavity wall, 50mm above base, equi-spaced		
F1	Closure top surface, 50mm from outer edge	RS 219-4321	Heat sink adhesive: HS 850 981
F2	Vent plug		
G1	Lifting fin, at top shield attachment point		
G3	Lifting fin, at top shield attachment point		
H1	Lifting fin, at lifting point		
H3	Lifting fin, at lifting point		
I1	Lifting fin, at jacket attachment point		
I3	Lifting fin, at jacket attachment point		
L1	Flask side, 600mm from base, equi-spaced, between fins		
L2	Flask side, 600mm from base, equi-spaced, between fins		
L3	Flask side, 600mm from base, equi-spaced, between fins		
L4	Flask side, 600mm from base, equi-spaced, between fins		
N	Drain plug		
P1	Flask foot, top surface, 30mm from outer edge		
P3	Flask foot, top surface, 30mm from outer edge		
R1	Jacket, top edge, mid-way between lifting fins		
R3	Jacket, top edge, mid-way between lifting fins		
S1	Grill, mid-height, mid-way between lifting fins		
S3	Grill, mid-height, mid-way between lifting fins		
T1	Top shield, mid height, outermost vertical face		
T3	Top shield, mid height, outermost vertical face		
U1	Top shield, halfway across topmost horizontal face		
U3	Top shield, halfway across topmost horizontal face		
V	Top shield, centre, outer surface		
	Ambient air temperature		

Equilibration

Step	Operation	Time	Cavity wall temperature (°C)			
			B1	B2	B3	B4
5	Take readings (not less than 24 hrs later).					
6	Take readings 1 hr later					
7	Calculate difference as a percentage.					

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8	If difference is less than 0.25% then record readings below.

Results

Identity	°C	Identity	°C	Identity	°C	Identity	°C
X1	341,7	B1	155,2	H1	—	R1	35,5
X2	341,1	B2	155,2	H3	54,8	R3	36,0
X3	341,5	B3	154,2	I1	60,8	S1	42,3
Y1	310,5	B4	290,4	I3	52,8	S3	40,0
Y2	312,4	C1	149,9	L1	111,7	T1	34,8
Y3	311,7	C3	—	L2	111,2	T3	35,5
Z1	333,1	F1	111,8	L3	112,1	U1	34,5
Z2	332,7	F2	115,6	L4	112,5	U3	34,6
Z3	329,8	G1	—	N	83,3	V	39,6
A1	195,8	G3	48,7	P1	76,9	Ambient	21,1
A3	150,4	-	-	P3	76,6	-	-

Notes:

NOTA: Se utilizó la grilla R 8064. 24 AGUJEROS

No. of pages attached: .....

Signed		Date	30/10/08
Witnessed/Reviewed		Date	30/10/08

[illegible]
Ingeniero de Obra
DIOXITEK S.A.