

THUR  
24 MAY 2012

M20 FRONT END  
VACUUM LEAK CHECK

11:15am: 2ACG4 @  
20mTar

~11:15am 1) VARIAN LEAK DETECTOR: LEAK RATE  $1.5 \times 10^{-8}$

10s SPRAY w/ VERY LOW ~~FLOW~~ FLOW @  
M20 BB TOP FLANGE (PLASTIC OVER T2 MANOLITH)  
→ NO RESPONSE AFTER 2 MINS!

(11:30am) 2) M8 T2 BLANK-OFF FLANGE, 5s SPRAY

↑ @ 30s, PEAK @ 2 MINS:  $4.1 \times 10^{-8}$

3) M20 Q1/T2 FLANGE T.D.C. 5s SPRAY

↑ @ 40s,  $2.5 \times 10^{-8}$  @ 60s,  $3.3 \times 10^{-8}$  @ 2 MINS, (PEAK)  
@ 2.5 MINS: STARTING TO RECOVER

4) M20 Q1/T2 FLANGE B.D.C. 5s SPRAY (START @ 10x  
less)

↑ @ 45s, PEAK @  $3.0 \times 10^{-8}$  AT 3 MINS

AT 11:55  
2ACG4 @  
16mTar

5) M9 T2 FLANGE, T.D.C., 5s SPRAY ( $1.6 \times 10^{-8}$  BASE)

NO RESPONSE @ 3 MINS

6) DOWNSTREAM T2 2A Q14 (START  $1.5 \times 10^{-8}$ )  
(COLL B AREA)

↑ @ 10s,  $3.3 \times 10^{-8}$  @ 1 MIN, PEAK  $3.6 \times 10^{-8}$  @ 1:45

7) M20 Q2 - SCRAPER.

START (1.5)

BASE  $1.5 \times 10^{-8}$

5 SEC SPRAY

$1.7 \times 10^{-8}$  2 MIN

→ CHECKED FLOW AFTER OK

$1.8 \times 10^{-8}$  2.5 MIN

4 min  
 $1.7 \times 10^{-8}$   
RECOVER