

Sound Level Measurement

Transformer Rating 500kVA	Serial No 100205176
Transformer Type USS	Location IN THE TEST AREA
Drawing Number LK50294A0	
EDF Spec ES 4-6001	Date of Test 10/06/07
HV Voltage 11000-6600	Tested in Accordance with BS EN 60076-10:2001 / IEC 60076-10:2001
LV Voltage 433	
Tap position 3	
Witness	Customer EDF Energy
Measurement in dB(A)	
	With Breather Cap

Microphone Position	Ambient Before	Measured Level	Ambient After	Octave filter Frequency Hz	Measured value at point 1 (trf energised)
1	38.5	42.2	38.6	31.5	53.2
2	38.4	43.1	37.6	62.5	52.0
3	38.6	42.9	37.6	125	48.5
4	38.4	42.1	38.3	250	45.8
5	38.7	41.9	38.5	500	34.9
6	37.7	41.6	38.0	1000	29.4
7	38.6	42.1	39.0	2000	24.7
8	38.0	42.2	38.3	4000	24.0
				8000	22.2
				16000	14.7
Average	38	42	38	A	39.2
Difference		4			
Correction		2			
Corrected	Lpa	40			
height	1.66 m	Contour Lm	6.49m	$S=1.25hLm = 13.5 m^2$	
				$Lwa = Lpa+10\log S$	
				$= 40 + 11 = 51$	
Sound pressure	40 dB(A)	Sound power Level	51 dB(A)	Guaranteed value 54dB(A)	
Tested by	P. GARDNER Signature		<i>P Gardner</i>		

See Drawing LK50294A0 For Plan View

