Noise Assessment Record

MOD Form 5017

NOTE: To be completed by 'competent' persons with current knowledge of conducting noise assessments. This form is not suitable for assessing impulse noise from military weapons, explosives and pyrotechnics which should be assessed by a specialist with a bespoke risk assessment.

1. Assessment details

Establishment / Unit / Platform:		**Section / Department / Sub-unit:**	
Location of assessment (address)		**Type of noise environment**	**Continuous** ☐ **Impulsive** ☐
MOD Form 5017 Reference No.		**Main risk assessment (MOD Form 5010) Reference No.**	

2. Assessment carried out by

Assessor name:		**Signature:** (only if form is completed by hand)			
Post / Role:		**Rank / Grade:**		**Date:**	

3. Summary of results (complete after sections 4 – 10)

Post (name)	Number of personnel exposed	Lower Exposure Action Value reached?		Upper Exposure Action Value reached?		Exposure Limit Value reached? (Hearing protection accounted for)	
		$L_{EP,d}$ 80 dB(A)	L_{Cpeak} 135 dB(C)	$L_{EP,d}$ 85 dB(A)	L_{Cpeak} 137 dB(C)	$L_{EP,d}$ 87dB(A)	L_{Cpeak} 140 dB(C)
		☐	☐	☐	☐	☐	☐

Is a specialist noise assessment or advice required due to presence of impulse noise or Exposure Limit Values exceeded with mitigation? ($L_{EP,d}$ over 100 dB(A)) Yes ☐ No ☐

Measurement details

4. Measurement equipment

Sound level meter		**Serial No.**		**Date of calibration**	
Microphone		**Serial No.**		**Date of calibration**	
Calibrator model		**Serial No.**		**Date of calibration**	

5. Description / sketch / images of area covered by the assessment
(Identify locations of noise sources, normal working positions, etc)

6. Details of operations / remarks
(Detail the work / activities undertaken, and any control measures currently in place)

Measurement results							Hearing Protection	
Start calibration level (dB)		**End calibration check (dB)**					**Make / model:**	
Activity (as specified in section 6)	**Measurement**				**Activity Noise Exposure**		**In use currently?**	**Yes ☐ No ☐**
							SNR:	
	Duration	**L_{Aeq} dB(A)**	**L_{Ceq} dB(C)**	**L_{Cpeak} dB(C)**	**Activity Duration**	**Exposure Points**	**L'_{Aeq} at the ear (L_{Ceq}–SNR+4) dB(A)**	**Exposure Points at the ear**
					Total points		**Total points**	
					$L_{EP,d}$ no hearing protection		**$L'_{EP,d}$** with hearing protection	

7. Recommendations

Actions necessary to comply with JSP 375 Volume 1, Chapter 25 - Noise at work

Reduction of noise exposure by means other than the provision of hearing protection
(Essential if personnel are exposed at / or above the Upper Exposure Action Value)

Information, Instruction, and Training of personnel
(Essential if personnel are exposed at or above the Lower Exposure Action Value)

Hearing Protection Zones
(Essential in all areas where personnel are exposed at or above the Upper Exposure Action Value)

Provision of personal hearing protection
(Where applicable, is the current hearing protection suitable and sufficient, or is additional / alternative hearing protection required? Include types and NATO Stock numbers, where possible)

8. Additional recommendations

(List any further actions which have not been previously discussed)

9. Further comments

10. Action taken by commander, manager or accountable person

Name:		**Signature** (only if form is completed by hand)			
Post / Role:		**Rank / Grade:**		**Date:**	

11. Record of reviews

Note: A review **should** be undertaken at a frequency that is appropriate to the level of risk (see JSP 375, Vol1 Chapter 25 for details) but **must** be conducted at least annually or if there is a change in work practices.

Date of initial assessment		**Reference No. of initial assessment**	

Date of review	Name of reviewer	Grade / Rank	Re-assess?
			☐
			☐
			☐
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			☐

If a re-assessment is required, please fill in a new Noise Assessment Record and enter the details below.

Reference No. of new assessment		**Date of new assessment**	

Sound pressure level, L_{Aeq} (dB(A))	Duration of exposure								
	5 min	15 min	30 min	1 hr	2 hr	4 hr	8 hr	10 hr	12 hr
110	350	1000	2000	4000	8000	16000	32000	40000	47000
109	250	800	1600	3200	6250	12500	25000	31000	38000
108	200	625	1250	2500	5000	10000	20000	25000	30000
107	170	500	1000	2000	4000	8000	16000	20000	24000
106	130	400	800	1600	3200	6250	12500	16000	19000
105	100	320	625	1250	2500	5000	10000	12500	15000
104	85	250	500	1000	2000	4000	8000	10000	12000
103	65	200	400	800	1600	3200	6250	8000	9500
102	50	160	320	625	1250	2500	5000	6250	7500
101	40	125	250	500	1000	2000	4000	5000	6000
100	32	100	200	400	800	1600	3200	4000	4500
99	25	80	160	320	625	1250	2500	3200	3800
98	20	60	125	250	500	1000	2000	2500	3000
97	16	50	100	200	400	800	1600	2000	2400
96	14	40	80	160	320	625	1250	1600	1900
95	10	32	65	125	250	500	1000	1250	1500
94	8	25	50	100	200	400	800	1000	1200
93	7	20	40	80	160	320	625	800	950
92	5	16	32	65	125	250	500	625	750
91	4	12	25	50	100	200	400	500	600
90	3	10	20	40	80	160	320	400	475
89	3	8	16	32	65	125	250	320	400
88	2	6	12	25	50	100	200	250	300
87	2	5	10	20	40	80	160	200	240
86	1	4	8	16	32	65	125	160	200
85	1	3	6	12	25	50	100	125	150
84	1	2	5	10	20	40	80	100	120
83	1	2	4	8	16	32	65	80	100
82	1	2	3	6	12	25	50	65	80
81		1	2	5	10	20	40	50	60
80		1	2	4	8	16	32	40	50
79		1	2	3	6	12	25	32	40
78		1	1	2	5	10	20	25	30
77			1	2	4	8	16	20	25

Total exposure points (sum of points from individual exposure components)	Daily noise exposure $L_{EP,d}$ (dB(A))
32000	110
25000	109
20000	108
16000	107
12500	106
10000	105
8000	104
6250	103
5000	102
4000	101
3200	100
2500	99
2000	98
1600	97
1250	96
1000	95
800	94
625	93
500	92
400	91
320	90
250	89
200	88
160	87
125	86
100	85
80	84
65	83
50	82
40	81
32	80
25	79
20	78
16	77

Table 1 – MOD - Noise exposure ready-reckoner (daily exposure)

	Above upper exposure action value ($L_{EP,d}$ 85 dB(A))
	Above lower exposure action value ($L_{EP,d}$ 80 dB(A))
	Below lower exposure action value ($L_{EP,d}$ 80 dB(A))

Instructions:

a. For each task or period of noise exposure in the working day look up in the table on the left the exposure points corresponding to the sound pressure level and duration (e.g. exposure to 93 dB(A) for 1 hour gives 80 exposure points);

b. Add up the points for each task or period to give total exposure points for the day;

c. Look up in the table on the right the total exposure points to find the corresponding daily noise exposure (e.g. a total exposure points for the day of 280 points gives a daily noise exposure of between 89 dB(A) and 90 dB(A)).