



Serviço Social da Indústria
Departamento Regional do Rio Grande do Sul

V PARTE

ANEXOS

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Bairro Amaral Ribeiro - Sapiranga - RS
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BIBLIOGRAFIA CONSULTADA

- . Enciclopédia "Occupational Health and Safety" - ILO
- . Industrial Hygiene and Toxicology, Vol I e II
- . Dangerous Properties of Industrial Materials - Irving Sax
- . Normas Regulamentadoras anexas à Portaria 3214/78, do Mtb
- . Normas Brasileira Registrada no INMETRO NBR 5413
- . Dicionário de Químicos - Carraro e Meditsch
- . Occupational Diseases - a guide to their recognition - NIOSH
- . Manual de Toxicologia Industrial - Plunckett
- . Conceitos básicos em Medicina Ocupacional - H. A. Waldron
- . Noise Reduction - Beranek

QUEST TECHNOLOGIES
Q300 NOISE LOGGING DOSIMETER

Unit Version Number: 02.2

Serial Number: QC7050058

Name ELCEMY

Work Area ESTEIRA DE PRODUÇÃO 1

Comments _____

Dosimeter Calibration: 114.0dB 30-MAR-98 @ 10:41:34

Calibrator:

Serial Number _____

Calibration Date _____

Measuring Parameters: (Range 70-140 Weighting A)

DOSIMETER 1		DOSIMETER 2		DOSIMETER 3	
Time Constant	SLOW	Time Constant	SLOW	Time Constant	SLOW
Exchange Rate	5dB	Exchange Rate	5dB	Exchange Rate	5dB
Threshold	80.0dB	Threshold	80.0dB	Threshold	80.0dB
Criterion	85.0dB	Criterion	85.0dB	Criterion	85.0dB
Upper Limit	115.0dB	Upper Limit	115.0dB	Upper Limit	115.0dB

Session Started	Session Stopped	Run Time
08-SEP-98 @ 09:48:41	08-SEP-98 @ 11:17:31	1:28:50

DOSIMETER 1					
Peak Level	125.1dB	08-SEP-98 @ 09:49:10			
Slow Max Level	101.5dB	08-SEP-98 @ 10:48:26	UL Time	0:00:00	
Slow Min Level	70.1dB	08-SEP-98 @ 10:58:43			

LAVG	87.3dB	TWA	75.1dB	DOSE	25.35%	DOSE(8)	136.9%
SEL(5)	149.2dB						

EVENT(1) LIXA DE ASPERAR
Notes _____

Session Started	Session Stopped	Run Time
08-SEP-98 @ 09:48:41	08-SEP-98 @ 11:17:31	1:28:50

DOSIMETER 1					
Peak Level	125.1dB	08-SEP-98 @ 09:49:10			
Slow Max Level	101.5dB	08-SEP-98 @ 10:48:26			
Slow Min Level	70.1dB	08-SEP-98 @ 10:58:03			

LAVG	87.3dB	TWA	75.1dB	DOSE	25.35%	DOSE(8)	136.9%
SEL(5)	149.2dB						

EVENT(1) DATA LOGGING # = Incomplete Interval
 LAVG 1 (1 MINUTE TIME HISTORY)

09:48	87	88	87	88	87dB	+-----+---	87dB
09:53	87	87	87	87	87dB	+-----+---	87dB
09:58	87	87	87	87	87dB	+-----+---	87dB
10:03	87	87	88	87	88dB	+-----+---	87dB
10:08	88	87	87	87	87dB	+-----+---	87dB
10:13	87	87	87	87	87dB	+-----+---	87dB
10:18	87	87	87	85	87dB	+-----+---	87dB
10:23	87	87	87	87	87dB	+-----+---	87dB
10:28	87	87	88	86	86dB	+-----+---	87dB
10:33	87	87	87	86	87dB	+-----+---	87dB
10:38	86	87	86	84	86dB	+-----+---	86dB
10:43	87	87	87	87	88dB	+-----+---	87dB
10:48	87	87	82	87	87dB	+-----+---	86dB
10:53	87	87	86	90	83dB	+-----+---	87dB
10:58	71	82	85	86	87dB	+-----+---	84dB
11:03	87	87	86	87	87dB	+-----+---	87dB
11:08	88	87	87	87	88dB	+-----+---	87dB
11:13	87	87	87	#	#dB	+-----+---	83dB#

SLOW MAX (1 MINUTE TIME HISTORY)

09:48	94	93	95	92	92dB	+=====+-----+==	95dB
09:53	91	91	92	92	97dB	+=====+-----+==	97dB
09:58	91	92	93	92	92dB	+=====+-----+==	93dB
10:03	92	91	94	92	93dB	+=====+-----+==	94dB
10:08	92	92	92	92	92dB	+=====+-----+==	92dB
10:13	92	92	91	91	92dB	+=====+-----+==	92dB
10:18	92	92	91	92	91dB	+=====+-----+==	92dB
10:23	91	91	92	92	92dB	+=====+-----+==	92dB
10:28	91	91	91	93	91dB	+=====+-----+==	93dB
10:33	91	91	92	91	91dB	+=====+-----+==	92dB
10:38	91	92	91	91	91dB	+=====+-----+==	92dB
10:43	91	91	91	95	101dB	+=====+-----+==	101dB
10:48	95	91	92	90	91dB	+=====+-----+==	95dB
10:53	91	91	92	101	98dB	+=====+-----+==	101dB
10:58	91	92	91	91	93dB	+=====+-----+==	93dB
11:03	91	91	90	92	91dB	+=====+-----+==	92dB
11:08	93	92	92	92	94dB	+=====+-----+==	94dB
11:13	92	91	93	#	#dB	+=====+-----+==	93dB#

PEAK (1 MINUTE TIME HISTORY)

09:48	125	117	113	116	119dB	+=====+-----+==	125dB
09:53	113	117	112	116	113dB	+=====+-----+==	117dB
09:58	114	115	115	113	117dB	+=====+-----+==	117dB
10:03	113	115	114	114	120dB	+=====+-----+==	120dB
10:08	114	117	114	115	115dB	+=====+-----+==	117dB
10:13	114	115	113	116	115dB	+=====+-----+==	116dB
10:18	113	119	115	114	114dB	+=====+-----+==	119dB
10:23	116	115	113	114	113dB	+=====+-----+==	116dB
10:28	113	113	113	118	114dB	+=====+-----+==	118dB
10:33	112	114	115	116	113dB	+=====+-----+==	116dB
10:38	112	113	113	114	114dB	+=====+-----+==	114dB

QUEST TECHNOLOGIES
Q300 NOISE LOGGING DOSIMETER

Unit Version Number: 02.2

Serial Number: QC7050058

Name ELCEMY

Work Area ESTEIRA DE PRODUÇÃO 2

Comments _____

Dosimeter Calibration: 114.0dB 30-MAR-98 @ 10:41:34

Calibrator:

Serial Number _____

Calibration Date _____

Measuring Parameters: (Range 70-140 Weighting A)

DOSIMETER 1		DOSIMETER 2		DOSIMETER 3	
Time Constant	SLOW	Time Constant	SLOW	Time Constant	SLOW
Exchange Rate	5dB	Exchange Rate	5dB	Exchange Rate	5dB
Threshold	80.0dB	Threshold	80.0dB	Threshold	80.0dB
Criterion	85.0dB	Criterion	85.0dB	Criterion	85.0dB
Upper Limit	115.0dB	Upper Limit	115.0dB	Upper Limit	115.0dB

Session Started	Session Stopped	Run Time
09-SEP-98 @ 13:17:40	09-SEP-98 @ 15:01:50	1:44:10

DOSIMETER 1

Peak Level	128.5dB	09-SEP-98 @ 13:18:07	UL Time	0:00:00
Slow Max Level	98.9dB	09-SEP-98 @ 14:09:19		
Slow Min Level	69.9dB	09-SEP-98 @ 14:26:24		

LAVG	86.9dB	TWA	75.9dB	DOSE	28.27%	DOSE(8)	130.2%
SEL(5)	149.9dB						

EVENT(1) LIXA DE ASPERAR

Notes _____

Session Started	Session Stopped	Run Time
09-SEP-98 @ 13:17:40	09-SEP-98 @ 15:01:50	1:44:10

DOSIMETER 1

Peak Level	128.5dB	09-SEP-98 @ 13:18:07
Slow Max Level	98.9dB	09-SEP-98 @ 14:09:19
Slow Min Level	69.9dB	09-SEP-98 @ 14:26:05

LAVG	86.9dB	TWA	75.9dB	DOSE	28.27%	DOSE(8)	130.2%
SEL(5)	149.9dB						

EVENT(1) DATA LOGGING # = Incomplete Interval
 LAVG 1 (1 MINUTE TIME HISTORY)

13:17	87	86	86	87	87dB	+-----+---	87dB
13:22	87	86	85	86	87dB	+-----+---	86dB
13:27	88	86	87	88	83dB	+-----+---	87dB
13:32	86	87	84	87	87dB	+-----+---	87dB
13:37	87	86	87	87	86dB	+-----+---	87dB
13:42	87	88	86	86	87dB	+-----+---	87dB
13:47	85	86	86	87	86dB	+-----+---	86dB
13:52	86	87	86	87	86dB	+-----+---	86dB
13:57	87	86	85	87	87dB	+-----+---	86dB
14:02	87	71	88	88	87dB	+-----+---	86dB
14:07	86	88	86	84	87dB	+-----+---	86dB
14:12	87	86	86	85	87dB	+-----+---	86dB
14:17	84	87	87	86	87dB	+-----+---	86dB
14:22	87	87	83	76	77dB	+-----+ 83dB	
14:27	88	87	86	87	88dB	+-----+---	87dB
14:32	88	89	85	86	87dB	+-----+---	87dB
14:37	87	87	87	88	87dB	+-----+---	87dB
14:42	87	87	87	87	87dB	+-----+---	87dB
14:47	87	87	87	87	87dB	+-----+---	87dB
14:52	87	87	87	86	87dB	+-----+---	87dB
14:57	87	87	78	88	#dB	+-----+---	84dB#

SLOW MAX (1 MINUTE TIME HISTORY)

13:17	94	92	94	93	93dB	+====+====+==	94dB
13:22	92	96	93	91	92dB	+====+====+==	96dB
13:27	92	91	92	94	92dB	+====+====+==	94dB
13:32	92	92	92	92	91dB	+====+====+==	92dB
13:37	92	92	92	92	92dB	+====+====+==	92dB
13:42	92	93	91	92	92dB	+====+====+==	93dB
13:47	91	92	92	93	91dB	+====+====+==	93dB
13:52	92	93	92	92	92dB	+====+====+==	93dB
13:57	92	91	92	93	91dB	+====+====+==	93dB
14:02	91	90	93	92	92dB	+====+====+==	93dB
14:07	91	98	92	90	92dB	+====+====+====	98dB
14:12	92	93	91	92	92dB	+====+====+==	93dB
14:17	91	92	92	92	92dB	+====+====+==	92dB
14:22	92	92	91	90	91dB	+====+====+==	92dB
14:27	92	92	92	93	96dB	+====+====+====	96dB
14:32	94	95	92	92	92dB	+====+====+==	95dB
14:37	92	92	94	92	92dB	+====+====+==	94dB
14:42	92	93	92	92	92dB	+====+====+==	93dB
14:47	92	93	93	93	94dB	+====+====+==	94dB
14:52	92	93	92	93	91dB	+====+====+==	93dB
14:57	91	91	92	92	#dB	+====+====+==	92dB#

PEAK (1 MINUTE TIME HISTORY)

13:17	128	112	114	112	110dB	+====+====+====+====+====+====	128dB
13:22	120	114	111	114	110dB	+====+====+====+====+====+====	120dB
13:27	110	111	111	112	110dB	+====+====+====+====+====+====	112dB
13:32	109	112	111	110	109dB	+====+====+====+====+====+====	112dB
13:37	110	117	109	113	111dB	+====+====+====+====+====+====	117dB

PEAK (1 MINUTE TIME HISTORY)

13:42	110	113	110	107	110dB	+=====+ 113dB
13:47	109	111	110	111	110dB	+=====+ 111dB
13:52	110	111	110	110	109dB	+=====+ 111dB
13:57	111	110	111	109	109dB	+=====+ 111dB
14:02	109	112	112	110	109dB	+=====+ 112dB
14:07	110	112	115	107	111dB	+=====+ 115dB
14:12	112	112	112	110	111dB	+=====+ 112dB
14:17	112	113	111	109	111dB	+=====+ 113dB
14:22	111	109	110	110	109dB	+=====+ 111dB
14:27	113	110	112	113	115dB	+=====+ 115dB
14:32	111	110	111	112	110dB	+=====+ 112dB
14:37	109	110	113	111	111dB	+=====+ 113dB
14:42	110	112	111	110	112dB	+=====+ 112dB
14:47	114	112	111	114	110dB	+=====+ 114dB
14:52	111	111	109	110	109dB	+=====+ 111dB
14:57	113	112	111	110	#dB	+=====+ 113dB#

% TIME STATISTICAL DISTRIBUTION (Slow Time Constant)

Total Samples 200005
Total Run 1:44:10

dB	Samples	% Time	0	20	40	60	80
69	577	0.28%	*				
70	754	0.37%	*				
71	460	0.22%	*				
72	491	0.24%	*				
73	628	0.31%	*				
74	802	0.40%	*				
75	955	0.47%	*				
76	1155	0.57%	*				
77	1398	0.69%	*				
78	1928	0.96%	*				
79	2405	1.20%	*				
80	3490	1.74%	*				
81	8020	4.00%	***				
82	18677	9.33%	*****				
83	20569	10.28%	*****				
84	14325	7.16%	****				
85	13782	6.89%	****				
86	15479	7.73%	****				
87	17402	8.70%	*****				
88	20613	10.30%	*****				
89	22111	11.05%	*****				
90	19590	9.79%	*****				
91	10604	5.30%	***				
92	2893	1.44%	*				
93	511	0.25%	*				
94	192	0.09%	*				
95	100	0.04%	*				
96	35	0.01%	*				
97	19	0.00%	*				
98	40	0.01%	*				
dB	Samples	% Time	0	20	40	60	80