

DIVERS HELIUM SPEECH INTELLIGIBILITY TEST

Chalco Eleven offers a service to test the intelligibility of Helium Unscramblers. Once a new Divers Communication System is installed on a Vessel/Platform/land site, in order to evaluate its audio intelligibility in atmospheric as well as helium it has to be tested for intelligibility once it has been reproduced or put through a Helium Unscrambler.

Back in 1998 there was a deep dive carried out at the National Hyperbaric Centre, Aberdeen, where Chalco Eleven produced a Modified Rhyme Test (MRT) where a Diver in the Chamber or the Bell reads from a sheet containing 50 words at various depths in a helium environment. A Response Sheet was also created containing 200 words (see excerpt sheets attached).

The original digital recorded speech is played back through each of the channels being tested from atmospheric to 180 MSW. Only the original Digital Recording gives true and accurate intelligibility score. Any other inferior recording will give a false result. Once all the Response Sheets have been marked by 6 lay-persons, the results are put through a formula which gives intelligibility score. All tests are carried out using Test Procedure CE-300MRT.



A Team from Chalco Eleven goes out with the Equipment on to Vessels, Platforms, land sites to carry out MRT Tests as well as offer a service where incidents have occurred and Chalco is called upon for speech analysis to be represented in a Court of Law. We also provide services for all types of analogue, digital, audio clean-up and video.



THIS IS A GRIFFITHS MODIFIED RHYME TEST CREATED BY CHALCO ELEVEN LTD.

MY NAME IS ***** PETE DIGWEED *****

THE DIVING DEPTH IS ----- METERS

I AM BREATHING HELIOX OF ----- PERCENT

THIS IS LIST NUMBER N.H.C 2: 1 , I REPEAT, LIST NUMBER N.H.C 2: 1

TESTING OBJECT: N.H.C RECORDING

NUMBER 1 , THE WORD IS BAST

NUMBER 26 , THE WORD IS SHINE

NUMBER 2 , THE WORD IS BATCH

NUMBER 27 , THE WORD IS SICK

NUMBER 3 , THE WORD IS WITCH

NUMBER 28 , THE WORD IS SING

NUMBER 4 , THE WORD IS DUFF

NUMBER 29 , THE WORD IS SUD

NUMBER 24 , THE WORD IS WEAR

NUMBER 48 , THE WORD IS CHIN

NUMBER 25 , THE WORD IS SAG

NUMBER 49 , THE WORD IS SHIN

NUMBER 50 , THE WORD IS ZEE

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RESPONSE SHEET NUMBER 1: 17

NAME

DATE

***** CREATED BY CHALCO ELEVEN LTD (ABERDEEN) *****

	A	B	C	D		A	B	C	D
1.	BAST	BADGE	BASS	BAT	26.	SHINE	SHOUT	SHORT	SHORE
2.	LOT	LAWS	BATCH	LODGE	27.	SICK	SIP	SIT	SHOCK
3.	WITCH	LONG	WIG	LOG	28.	SUN	SIN	SUM	SING
4.	WITH	WIT	DUFF	WICK	29.	SUMP	SUD	SUB	TANG
22.	HATH	HALF	HAVE	PUT	47.	PIN	SIN	FIN	TEN
23.	WE'RE	HASH	HAS	WEAL	48.	CHIN	WIN	TIN	GIN
24.	WEAVE	WEAR	SACK	WEED	49.	LEE	SHIN	TIN	THIN
25.	SAG	SAP	SAT	SAD	50.	ZEE	KNEE	DEE	THEE

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EQUIPMENT CARRIED TO PERFORM MRT ON DIVERS COMMUNICATGION SYSTEM

1 off MRT COMMUNICATION TEST RACK

Serial No : CE13-0515278

Size : 57 x 35 x 54 cm

Weight : 24 Kgs

1 off ALUMINIUM CASE

CONTAINING DOCUMENTATION

Size : 46 x 33 x 17 cm

Weight : 5 Kgs

1 off PELI-CASE CONTAINING :

2 off JBL Control 1 Speakers

8 off Headsets

1 pk Various Adaptors

1 pk Various Interconnect Leads

Size : 60 x 20 x 46 cm

Weight : 17 Kgs

