



Mixed-Gas-Saturation Interventions in Deep Tunneling

1999 - 2002 Westerschelde Tunnel Zeeland-The Netherlands

Max. Overpressure 7.9bar

Team Interventions in Total 6 = 18 Man Interventions
Working Days 40

2012 - 2015 Nanjing Weisan Road River-Crossing Project Nanjing-China

Max. Overpressure 6.5bar

Team Interventions S+N-Line in Total 36 = 108 Man Interventions
Working Days 649
Time under Pressure 52.552:20
Work Time under Pressure 8.606:00

2014 - 2015 Eurasia Tunnel Istanbul-Turkey

Max. Overpressure calculated 11bar

Team Interventions in Total 07 = 22 Man Interventions
Working Days 39
Time under Pressure 4.759:05
Work Time under Pressure 740:00

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Decompression Treatments (Bends) 00

Ammersbek, 2015-08-01

Nordseetaucher GmbH
Claus Mayer

Superintendent
Specialist Hyperbaric Competence





Mixed-Gas-Saturation Interventions in Deep Tunneling

Nanjing Weisan Road River-Crossing Project S-Line and N-Line

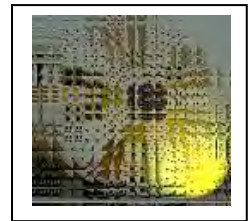
Contractor: *CCCC-China Communications Construction Company Ltd.*
01st February 2015

Max. Overpressure 6.5bar

Interventions	Start / Finish		Team	Work Days	Time under pressure	
					Living under Pressure	Work time
Each Team 3 Diver/Technicians						
September	2013	10.09. – 28.09.2013	Team I	16	1.337:00	194:00
Sept. / Oct.	2013	25.09. – 11.10.2013	Team II	14	1.219:00	171:00
October	2013	03.10. – 19.10.2013	Team III	14	1.214:00	180:00
October	2013	13.10. – 30.10.2013	Team IV	14	1.209:00	176:00
Oct. / Nov.	2013	20.10. – 07.11.2013	Team V	15	1.220:00	207:00
Oct. / Nov.	2013	31.10. – 20.11.2013	Team VI	18	1.437:00	234:00
November	2013	07.11. – 25.11.2013	Team VII	15	1.236:00	185:00
Nov. / Dec.	2013	21.11. – 14.12.2013	Team VIII	21	1.657:00	264:00
Nov. / Dec.	2013	26.11. – 24.12.2013	Team IX	26	2.035:00	300:00
Dec. / Jan.	2013	15.12. – 07.01.2014	Team X	20	1.668:00	258:00
Dec. / Jan.	2013	25.12. – 10.01.2014	Team XI	13	1.162:00	162:00
Jan. / Feb.	2014	28.01. – 24.02.2014	Team XII	24	1.953:00	324:00
Jan. / Feb.	2014	31.01. – 28.02.2014	Team XIII	26	2.028:00	330:00
Feb. / Mar.	2014	25.02. – 19.03.2014	Team XIV	20	1.561:00	199:00
March	2014	01.03. – 15.03.2014	Team XV	12	1.016:00	162:00
Mar. / Apr.	2014	31.03. – 16.04.2014	Team XVI	14	1.148:00	200:00
Apr. / May	2014	01.04. – 01.05.2014	Team XVII	27	2.138:00	356:00
Apr. / May	2014	29.04. – 06.05.2014	Team XVIII	05	542:00	84:00
May / June	2014	14.05. – 07.06.2014	Team XIX	22	1.732:00	350:00
May / June	2014	15.05. – 11.06.2014	Team XX	25	1.942:00	336:00
June	2014	05.06. – 29.06.2014	Team XXI	19	1.512:00	275:00
June	2014	11.06. – 29.06.2014	Team XXII	15	1.296:45	218:00
July	2014	03.07. – 23.07.2014	Team XXIII	18	1.483:09	282:00
July	2014	03.07. – 23.07.2014	Team XXIV	17	1.385:24	243:00
July / Aug.	2014	23.07. – 15.08.2014	Team XXV	21	1.731:54	296:00
July	2014	24.07. – 29.07.2014	Team XXVI	04	404:06	053:00
July / Aug.	2014	30.07. – 28.08.2014	Team XXVII	27	2.090:15	372:00
August	2014	16.08. – 30.08.2014	Team XXVIII	12	1.006:21	138:00

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Aug. /Sept.	2014	28.08. – 24.09.2014	Team XXIX	25	1.913:51	335:00
Aug. /Sept.	2014	30.08. – 28.09.2014	Team XXX	27	1.998:46	373:00
Sept. /Oct.	2014	24.09. – 20.10.2014	Team XXXI	27	2.077:00	354:00
Sept. /Oct.	2014	28.09. – 21.10.2014	Team XXXII	23	1.876:36	291:00
December	2014	09.12. – 20.12.2014	Team XXXIII	09	797:15	131:00
December	2014	09.12. – 20.12.2014	Team XXXIV	09	790:18	125:00
January	2015	05.01. – 25.01.2015	Team XXXV	18	1.440:27	237:00
January	2015	06.01. – 25.01.2015	Team XXXVI	17	1.296:33	211:00

Team Interventions S+N-Line in Total 36 = 108 Man Interventions

Working Days

649

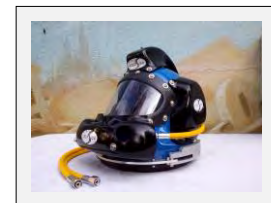
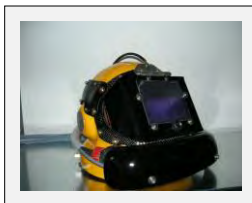
Time under Pressure

52.552:20

Work Time under Pressure

8.606:00

Decompression Treatments (Bends) 00





Mixed-Gas-Saturation Interventions in Deep Tunneling

Istanbul Strait Road Tube Crossing Project S-762

Contractor: YAPI MERKEZİ İNŞAAT VE SANAYİ A.Ş ve SK ENGINEERING & CONSTRUCTION CO., LTD. ADI ORTAKLIĞI İŞLETMESİ, Turkey

15th May 2015

Max. Overpressure 10.8bar

Interventions	Start / Finish	Work Days		Time under pressure	
		Standard Team 3 Diver/Technicians		Living under Pressure / Work time	
January 2015	15.01. – 30.01.2015	Team I	11	1.065:03	243:00
February 2015	10.02. – 25.02.2015	Team II	08	1.086:30	147:00
March 2015	05.03. – 14.03.2015	Team III	05	611:42	92:00
March 2015	28.03. – 31.03.2015	Team IV	01	229:33	07:30
April 2015	08.04. – 15.04.2015	Team V	03	481:18	42:00
April 2015	17.04. – 29.04.2015	Team VI (4 Diver)	10	1.015:47	184:30
May 2015	06.05. – 10.05.2015	Team VII	01	269:12	24:00

Team Interventions in Total 07 = 22 Man Interventions

Working Days

39

Time under Pressure

4.759:05

Work Time under Pressure

740:00

Decompression Treatments (Bends) 00

