

## Reference list of R&D Center "Ahmadullins – Science & Technology"

NO	CONTRACT	CUSTOMER	TITLE, A BRIEF DESCRIPTION OF THE PROJECT AND/OR OBJECT	TECHNICAL DESCRIPTION OF THE WORKS PERFORMED	ADDRESS OF THE OBJECT OF THE EXECUTED WORKS	CUSTOMER REPRESENTATIVE, FULL NAME, POSITION, CONTACTS
1	No. 12-04/20 dated 27.04.20	Perviy Zavod LLC	KSM-X catalyst supply for kerosene fraction mercaptan removal unit	2.9 m <sup>3</sup> of KSM-X catalyst were manufactured and delivered	249845, Kaluga region., Dzerzhinsky district, pos. Linen Factory	Viktor Timin 8 (495) 730-08-56 add.122
2	No. 12-01/20 dated 15.04.20	Perviy Zavod LLC	Providing a non-exclusive license to use the invention on the territory of Russian Federation	<b>License</b> Registered in FIPS No. PД0336461 from July 15, 2020	249845, Kaluga region., Dzerzhinsky district, pos. Linen Factory	Viktor Timin 8 (495) 730-08-56 add.122
3	No. 61 dated 26.03.20	Perviy Zavod LLC	Development of the Basic Design for Sweetening of kerosene fraction	<b>A Basic Design</b> has been issued for the sweetening of kerosene fraction	249845, Kaluga region., Dzerzhinsky district, pos. Linen Factory	Viktor Timin 8 (495) 730-08-56 add.122
4	No. 19-1140 dated 05.12.19	PJSC Orsknefteorgsintez	Providing a non-exclusive license to use the invention on the territory of Russian Federation	<b>License</b> Registered in FIPS No. PД0334900 from June 23, 2020	Goncharova st., 1A, Orsk, Orenburg Region, Russian Federation	Babaev E.A. +7 (3537)34-34-25 eababaev@ornpz.ru
5	No. 19-1110 dated 28.11.19	PJSC Orsknefteorgsintez	Development of Basic Design for LPG Mercaptan Sweetening Unit of PJSC Orsknefteorgsintez	<b>A Basic Design</b> has been issued for the sweetening of liquefied petroleum gas from mercaptans	Goncharova st., 1A, Orsk, Orenburg Region, Russian Federation	Babaev E.A. +7 (3537)34-34-25 eababaev@ornpz.ru
6	No. 4600046064 dated 12.09.19	PJSC "Nizhnekamskneftekhim"	R&D on the topic: Development of a method for the purification of alkali sewers of the pyrolysis unit of the Ethylene Plant of PJSC "Nizhnekamskneftekhim"	<b>The initial data</b> on the reconstruction of the oxidative treatment of alkali sewers of the pyrolysis unit was issued	st. Sobolekovskaya, building 23, office 129, Nizhnekamsk, Nizhnekamsk district, RT, RF, 423574	Nikonorova V.N. (8555) 37-72-17, 8-917-257-61-42 e-mail: NasyrovaAV@nknh.ru
7	No. 17-7/19 dated 31.07.2019	JSC «Novoshakhtinsky Oil Refinery»	Development of the Basic Design for Sweetening of liquefied petroleum gas from mercaptans, manufacture and supply of KSM-X catalyst	<b>A Basic Design</b> has been issued for the sweetening of liquefied petroleum gas from mercaptans	346392, Rostov region, Krasnosulinsky district, Kiselevsky rural settlement	Ivanova E.D. Phone: +7 (495) 185-14-14 (ext. 73-24)

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8	No. 18-19/208 dated 21.06.2019	«Mozyr Oil Refinery» LLC	KSM-X catalyst supply for alkali regeneration from the LPG mercaptan removal unit	11.7 m3 of KSM-X catalyst were manufactured and delivered	Gomel region., Mazyr, microdistrict Mazyr-11	Maltseva M.A. Tel Fax: (+375) 236-37-38-19
9	No. 218-15-2019 dated 14.06.2019	«LUKOIL-UNP» LLC	KSM-X catalyst supply for alkali regeneration from the LPG mercaptan removal unit	3.5 m3 of KSM-X catalyst were manufactured and delivered	169300, Komi Republic, Ukhta, st. Zavodskaya 11	Mazitov S.V. +79200027085
10	No. 12-4/19 dated 25.03.2019r.	"MashTech-Service" LLC	Supply of KSM-X oxidation catalyst for oxidative treatment of sulfur-alkaline effluents	8.2 m3 of KSM-X catalyst were manufactured and delivered	450065, Ufa, st. Initiative, d.13B	Director of «MashTechService» LLC Sokolov K.E. 8(917) 467-03-21
11	No. 12-3/19 dated 25.03.2019r.	"MashTech-Service" LLC	Development of Basic Design for oxidative treatment of sulfur-alkaline effluents of JSC "SNPS-Aktobemunaigas" by the LOCOS method on the KSM-X catalyst	<b>A Basic Design</b> has been issued for the oxidative treatment of sulfur-alkaline effluents of JSC "SNPS-Aktobemunaigas" using the LOCOS method on the KSM-X catalyst	450065, Ufa, st. Initiative, d.13B	Director of «MashTechService» LLC Sokolov K.E. 8(917) 467-03-21
12	No. HS19-PR-1528 dated 29.01.2019	Amec Foster Wheeler plc	<b>Basic Design</b> for sweetening of liquefied petroleum gases (including COS removing) from Coking Unit - 2000 at OJSC "BASHNEFT" plant	<b>Basic Design</b> was issued for liquefied gases sweetening block (including COS removing) with the following alkali regeneration in the presence of KSM-X catalyst	17325 Park Row Houston, TX 77084	Project Manager Fabio Salazar D +1 (832) 809 9073 M +1 (713) 306 0644
13	No.12-06-18-282-08-2018 dated 16.10.2018	LLC «LUCOIL-UNP»	Development of the Basic Design for treating of LPG of the AT-1 unit to ensure the total sulfur content in LPG is not more than 50 ppm	<b>Basic design</b> was issued for LPG hydrogen sulfide and mercaptans removal block	169300, Komi Republic, Uhta, Zavodskaya st., 11	Mazitov S.V. +79200027085
14	No. Odl 18-354 dated 01.10.2018	Sime S.r.l.	Feasibility Study of the Revamp of the Kerosene Removal Units	Feasibility Study of the Revamp of the Kerosene Removal Units was issued	Localita Le Moreline Due, 57016 Rosignano Solvay, Italy	Valerio Vincis +39 3939417629
15	No. 12-07/18 dated 16.09.2018	Khark Petrochemical Company	Manufacturing and <b>supply of KSM-X catalyst</b> for alkaline sulfur waste oxidation	1,1 m <sup>3</sup> of heterogeneous KSM-X catalyst was manufactured and supplied	No. 40, Dejam Jou Street, Northern Dibaji, Farmaniyeh, Tehran, Iran	Mr. Hosseinirad +989121854213

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16	№ 12-5/17/3301418/0483Д dated 25.05.2018r.	JSC "Syzran refinery"	Manufacturing and <b>supply of KSM-X catalyst</b> for regeneration of alkaline extractant of mercaptans removal block from saturated and unsaturated products of GFU	16 m <sup>3</sup> of heterogeneous KSM-X catalyst was manufactured and supplied	JSC "Syzran refinery", 1 Astrakhanskaya st., Syzran, Russian Federation	General director of JSC "Syzran refinery" Kuzmin I.G. +7 (8464) 98-81-10
17	№ 13Д00545/18 dated 11.05.2018r.	OJSC "Slavneft-YaNOS"	Recalculation of the mercaptans removal unit of the MTBE production facility at JSC "Slavneft-YANOS", identifying bottlenecks and issuing solutions for their elimination	Recalculation of the mercaptans removal unit of the MTBE production facility at JSC "Slavneft-YANOS" was issued	OJSC "Slavneft-YaNOS" 130, Moscow ave., Yaroslavl, Russian Federation, 150000	General director of OJSC "Slavneft-YaNOS" Karpov N.V. +7-(4852)-49-81-00
18	№ 12-04/18 dated 28.02.2018	OJSC "Gazpromneft-Moscow refinery"	Manufacturing and <b>supply of KSM-X catalyst</b> for regeneration of alkali at LPG sweetening block of 400 GFU section	13.5 m <sup>3</sup> of heterogeneous KSM-X catalyst was manufactured and supplied	OJSC "Gazpromneft-Moscow Refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya	General Director of OJSC "Gazpromneft-Moscow Refinery" Ashot M. Yeguzariyan +7 (495)734-92-00
19	№ 12-03/18 dated 15.02.2018	LLC "Afipsky refinery"	<b>Basic design</b> for the block of LPG amine treatment from H <sub>2</sub> S and alkaline treatment from mercaptans at LLC "Afipsky refinery"	<b>Basic design</b> was issued for LPG hydrogen sulfide and mercaptans removal block	LLC "Afipsky refinery" industrial zone, Seversky district, Afipsky settlement, Krasnodar region, 353235	Sidorov Yuri Viktorovich, Chief Project Engineer, Tel.: +7-(495)-710-70-60 ext. 1735
20	№ 12/2 dated 15.02.2018	LLC "Afipsky refinery"	Providing a non-exclusive license to use the invention on the territory of Russian Federation	License Registered in FIPS No. РД0276071 from November. 23, 2018	LLC "Afipsky refinery" industrial zone, Seversky district, Afipsky settlement, Krasnodar region, 353235	Sidorov Yuri Viktorovich, Chief Project Engineer, Tel.: +7-(495)-710-70-60 ext. 1735

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21	№ HHO170780 dated 01.11.2017	LLC "LUKOIL-NNOS"	Manufacturing and <b>supply of KSM-X catalyst</b> for regeneration of mercaptide containing alkaline solution at butanes sweetening block	1.2 ton of heterogeneous KSM-X catalyst was manufactured and supplied	LLC "LUKOIL-NNOS" Kstovo, Nizhny Novgorod region, Russian Federation	Director of the project LLC "LUKOIL-NNOS" Kovalenko I.A. (8442)96-31-72
22	№12-6/17 Dated 29.08.2017r.	JSC "NEFTEKHIM PROEKT"	<b>Basic design</b> for LPG mercaptans removal block at reconstructed combined FCC unit at JSC "Mozyr Oil Refinery"	<b>Basic Design</b> was issued for LPG mercaptans removal block at reconstructed combined FCC unit	JSC "Mozyr Oil Refinery", Republic of Belarus, Mozyr, 247760	Director of JSC "NEFTEKHIMPROEKT" Saint-Petersburg subsidiary Smirnov V.N. +7-(812)-332-37-69
23	№12-2/17 Dated 17.01.2017	Mr. Mustafa Mohammed Saqi	<b>Author's supervision</b> services at start-up procedures of White Spirit Treatment from Mercaptans and Acid Impurities Unit	<b>Start-up</b> of White Spirit Treatment from Mercaptans and Acid Impurities Unit	Industrial Zone of Kirkuk, No. 81213	Director, Mr. Mustafa Mohammed Saqi +9647721479292
24	№12-3/16/HHOC 170033 Dated 28.12.2016	LLC "LUKOIL-NNOS",	<b>Basic Design</b> for sweetening (including COS removal) of liquefied petroleum gases from Delayed Coking Unit	<b>Basic Design</b> was issued for liquefied gases sweetening block (including COS removing) with the following alkali regeneration in the presence of KSM-X catalyst	LLC "LUKOIL-NNOS" Kstovo, Nizhny Novgorod region, Russian Federation	Director of the project LLC "LUKOIL-NNOS" Kovalenko I.A. (8442)96-31-72
25	02Д00087/17 Dated 27.12.2016	OJSC "Slavneft-YaNOS"	Manufacturing and <b>supply of KSM-X catalyst</b> for regeneration of mercaptide containing alkaline solution at PPBBF sweetening block	1.5 ton of heterogeneous KSM-X catalyst was manufactured and supplied	OJSC "Slavneft-YaNOS" 130, Moscow ave., Yaroslavl, Russian Federation, 150000	Equipment and General affairs Director at OJSC "Slavneft-YaNOS" Vladimir F. Zhelyazkov +7(4852)44-03-43
26	№12-2406/16 Dated 24.06.2016	JSC "ION-EXCHANGE TECHNOLOGY"	<b>Basic Design</b> for oxidation of mixed wastewaters at LLC "Tomskneftekhim" by LOCOS technology	<b>Basic Design</b> was issued for oxidation of mixed wastewaters at LLC "Tomskneftekhim" by LOCOS technology	JSC "ION-EXCHANGE TECHNOLOGY" Moscow, Barclay st., b.6/5	General Director of JSC "ION-EXCHANGE TECHNOLOGY" Kopitin Yu.A. +7(495)627-57-59

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27	№MH3-16/00000/00377/P/012 Dated 16.05.2016	OJSC "Gazpromneft-Moscow refinery"	Manufacturing and <b>supply of KSM-X catalyst</b> for alkali regeneration at BBF sweetening block	Used KSM catalyst was replaced by KSM-X catalyst	OJSC "Gazpromneft-Moscow Refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya	General Director of OJSC "Gazpromneft-Moscow Refinery" Ashot M. Yeguzariyan +7 (495)734-92-00
28	№БНФ/п/31/701/16/MTC Dated 15.02.2016	OJSC "BASHNEFT"	Manufacturing and <b>supply of KSM-X catalyst</b> for alkali regeneration at BBF sweetening block	Used KSM catalyst was replaced by improved KSM-X catalyst	OJSC "BASHNEFT" branch office "Bashneft-Ufaneftekhim" 450077, Russia, Ufa, Karl Marx Str. 30, b.1	Director of the Refining management department and petrochemical program modernization at JSC ANK "Bashneft" Bedarev D.V. +7(495) 228-22-00
29	№018-12/3/15-1782/15 Dated 03.09.2015	OJSC "TAIF-NK"	Manufacturing and <b>supply of KSM-X catalyst</b> for alkali regeneration at PPBBF sweetening block	50% of used KSM catalyst was replaced by improved KSM-X catalyst which is resistant to amines present in the regenerated alkaline solution	OJSC "TAIF-NK" Promzona, Nizhnensk city, Tatarstan, Russian Federation, 423570	Director of Gasoline production Plant at OJSC ILSHAT G. Fatykhov +7(8555)38-17-47
30	Purchase order no. HS15-PR-1358 Dated 09.04.2015	Amec Foster Wheeler plc	<b>Basic Design</b> for sweetening of liquefied petroleum gases (including COS removing) from Coking Unit - 2000 at OJSC "BASHNEFT" plant	<b>Basic Design</b> was issued for liquefied gases sweetening block (including COS removing) with the following alkali regeneration in the presence of KSM-X catalyst	525 N. Dairy Ashford Houston, Tx, USA	Project Manager Rowland Xavier Johnson D +1 713 929 5369 M +1 832 499 9804
31	№MH3-15/07000/00211/P/066 Dated 13.03.2015	OJSC "Gazpromneft-Moscow refinery"	<b>Basic Design</b> for liquefied gases sweetening for section 100 at CDU-AVT-6 of CUOR at JSC "Gazpromneft-Moscow refinery"	<b>Basic Design</b> was issued for LPG sweetening block of section 100 at CDU-AVT-6 of CUOR	OJSC "Gazpromneft-Moscow refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya, Moscow	General Director of OJSC "Gazpromneft-Moscow refinery" Ashot M. Yeguzariyan +7(495)734-92-00

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32	№12-9/15/БНФ/Л/31/972/15/П РЧ Dated 06.03.2015	OJSC "BASHNEFT"	Providing a non-exclusive license to use the invention according to patents No.2173330&2529500 for sweetening of LPG from Coking Unit - 2000 at OJSC "BASHNEFT"	License Registered in FIPS No. РД0176783 from July. 10, 2015	OJSC "BASHNEFT" branch office "Bashneft-Ufaneftekhim" 450077, Russia, Ufa, Karl Marx Str. 30, b.1	Director of the Refining management department and petrochemical program modernization at JSC ANK "Bashneft" Bedarev D.V. +7(495) 228-22-00
33	№MH3-14/09000/00 929/P/026 Dated Oct.01,2014	OJSC "Gazpromneft-Moscow refinery"	Consulting at start-up of LPG sweetening block with KSM-X catalyst	Start-up of LPG sweetening block with oxidative regeneration of alkaline solution in the presence of KSM-X catalyst	OJSC "Gazpromneft-Moscow refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya, Moscow	General Director of OJSC "Gazpromneft-Moscow refinery" Ashot M. Yeguzariyan +7(495)734-92-00
34	№MH3-14/07000/00 787/P/058 Dated Sep. 01, 2014	OJSC "Gazpromneft-Moscow refinery"	<b>Basic Design</b> for sweetening of liquefied gases from Flexicoking unit section- 250 at OJSC "Gazpromneft-Moscow refinery"	<b>Basic Design</b> was issued for liquefied gases sweetening block with the following alkaline regeneration in the presence of KSM-X catalyst - Flexicoking unit section - 250	OJSC "Gazpromneft-Moscow refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya, Moscow	General Director of OJSC "Gazpromneft-Moscow refinery" Ashot M. Yeguzariyan +7(495)734-92-00
35	№12-3/14 Dated Aug. 22, 2014	JSC "KONAR"	<b>Basic Design</b> for sweetening of liquefied gases from Flexicoking unit, section– 5000at LLC "RN-Tuapse Refinery"	<b>Basic Design</b> was issued for liquefied gases sweetening block with the following alkaline regeneration in the presence of KSM-X catalyst- Flexicoking unit section- 5000	LLC "RN-Tuapse Refinery" 1, Sochinskaya str., Tuapse city, Krasnodar region, Russian Federation, 352800	First Deputy of General Director at JSC "KONAR" E. I. Soshnikov erdalion@konar.ru

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36	№12-07/14/HHOC 140999 Dated Aug.21,2014	LLC "LUKOIL-NNOS"	Consulting at start-up of BF sweetening block with KSM-X catalyst	Start-up of BF sweetening unit with oxidative regeneration of alkaline solution in the presence of KSM-X catalyst. Results achieved: residual content of mercaptan sulfur is less than 5 ppmw and total sulfur less than 10 ppmw	LLC "LUKOIL-NNOS", Kstovo, Nizhniy Novgorod region, Russian Federation	Deputy Head of Logistics Department of LLC "LUKOIL-NNOS" V.L. Fedotov +7(83145)5-35-34
37	<b>№MH3-14/00000/00 537/P/012</b> Dated <b>Jul. 01, 2014</b>	OJSC "Gazpromneft-Moscow refinery"	Manufacturing and <b>supply of KSM catalyst</b> for regeneration of mercaptide containing alkaline solution	KSM catalyst was manufactured and supplied for alkaline solution regeneration at HFC-2	OJSC "Gazpromneft-Moscow refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya, Moscow	General Director of OJSC "Gazpromneft-Moscow refinery" Ashot M. Yeguzariyan +7(495)734-92-00
38	GIS/AKM/007/14 Dated Jan. 23, 2014	Global Industrial Solutions (GIS) Company	Manufacturing and <b>supply of KSM catalyst</b> for mobile deodorization unit	1.6 m <sup>3</sup> of KSM catalyst was manufactured and supplied to Bahrain for kerosene treatment from mercaptans process	International Station for Manufacturing of Refining, Factory No.52, building No. 656, road 16, 616 complex, Street Um AlSaad, Bahrain.	Mr. Mahmood Abdulla Faraj, Phone: +97339955001
39	GIS/AKM/006/14 Dated Jan. 23, 2014	Global Industrial Solutions (GIS) Company	<b>Basic Design</b> for kerosene deodorization mobile block	<b>Basic Design</b> was issued for the kerosene and diesel fractions deodorization mobile block with the use of heterogeneous KSM catalyst	International Station for Manufacturing of Refining, Factory No.52, building No. 656, road 16, 616 complex, Street Um Al Saad, Bahrain.	Mr. Mahmood Abdulla Faraj, Phone: +97339955001

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40	№HHOC 130577 Dated Oct. 16, 2013	LLC "LUKOIL-NNOS"	Manufacturing and <b>supply of KSM-X catalyst</b> for the regeneration of mercaptide containing alkaline solution	KSM-X catalyst for regeneration of the alkaline solution with a high content of mercaptides was manufactured and delivered to replace KSM catalyst	LLC "LUKOIL-NNOS", Kstovo, Nizhniy Novgorod region, Russian Federation	Deputy Head of Logistics Department at LLC "LUKOIL-NNOS" V.L. Fedotov +7(83145)5-35-34
41	№1287 Dated Dec. 18, 2012	OJSC "Gazpromneft-Moscow refinery"	<b>Basic Design</b> for liquefied gases sweetening at OJSC "Gazpromneft-Moscow refinery" for section 100 of CUOR	<b>Basic Design</b> was issued for LPG sweetening block of the section 100 CDU-AVT-6 of CUOR	OJSC "Gazpromneft-Moscow refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya, Moscow	Director of CIOR project office at OJSC "Gazpromneft-Moscow refinery" Alexander A. Meling +7(495)734-92-56
42	№1277 Dated Dec. 12, 2012	OJSC "Gazpromneft-Moscow refinery"	Providing a non-exclusive license to use the invention according to patent No.2173330 for purification of LPG at 100 section of combined unit of oil refining (CUOR)	"DEMERUS LPG" mercaptan removal technology. Registered in FIPS No. РД0119882 from Mar. 1, 2013	OJSC "Gazpromneft-Moscow refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya, Moscow	General Director of OJSC "Gazpromneft-Moscow refinery" Ashot M. Yeguzariyan +7(495)734-92-00
43	№ПИР 437-12-2сп Dated Nov. 22, 2012	LLC "LUKOIL-NGNIINP"	<b>Basic Design</b> for reconstruction of AGFU alkali regeneration block at LLC "LUKOIL-NNOS" in order to increase production capacity by 40%	<b>Basic Design</b> was issued for the reconstruction of alkaline solution regeneration block at LLC "LUKOIL-NNOS" in order to increase production capacity by 40%	LLC "LUKOIL-NNOS", Kstovo, Nizhniy Novgorod region, Russian Federation, 606200	Chief Engineer of project at LLC "LUKOIL-NGNIINP" Sergey N. Pashkin +7(8312)211-05-11
44	№ПИР 437-12-3сп Dated Nov. 22, 2012	LLC "LUKOIL-NGNIINP"	<b>Basic Design</b> for the reconstruction of butane fraction sweetening block of AGFU Unit at LLC "LUKOIL-NNOS"	<b>Basic Design</b> was issued for the reconstruction of butane fraction sweetening block in order to increase production capacity by 40%	LLC "LUKOIL-NNOS", Kstovo, Nizhniy Novgorod region, Russian Federation, 606200	Chief Engineer of project at LLC "LUKOIL-NGNIINP" Sergey N. Pashkin +7(8312)211-05-11



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45	№12-41 СП Dated Aug. 01, 2012	LLC PKI Vokenergomash	<b>Basic Design</b> of alkaline solution concentration and air purification from CO <sub>2</sub>	<b>Basic Design</b> was issued for alkaline solution concentration and air purification from CO <sub>2</sub>	OJSC "TAIF-NK" Promzona, Nizhnekamsk, Tatarstan, Russian Federation, 423570	Director of Gasoline production Plant at OJSC "TAIF-NK" ILSHAT G. Fatykhov +7(8555)38-17-47
46	№12-5/HHOC 120634 Dated Jul. 06, 2012	LLC "LUKOIL-NNOS"	<b>Basic Design</b> for sweetening of propane-propylene fraction from FCC unit	<b>Basic Design</b> was issued for propane-propylene fraction sweetening block with alkaline regeneration in the presence of KSM-X catalyst	LLC "LUKOIL-NNOS", Kstovo, Nizhniy Novgorod region, Russian Federation, 606200	Chief Technologist of LLC "LUKOIL-NNOS" German G. Vasilev +7(83145) 5-30-82
47	№12-6/10 Dated May 12, 2012	JSC "NEFTEKHIM PROEKT"	<b>Basic Design</b> for liquefied gases sweetening at OJSC "Gazpromneft-Moscow refinery"	<b>Basic Design</b> was issued for sweetening of liquefied gases at HFC-2 with the following regeneration of mercaptides saturated alkaline solution in the presence of KSM-X catalyst	OJSC "Gazpromneft- Moscow refinery" Building 3, 1, 2 <sup>nd</sup> quarter, Kapotnya, Moscow	Director of JSC "NEFTEKHIMPROEKT" Moscow subsidiary Alexander V. Batslev +7(495)780-89-88
48	№12-4 /018- 0661/12 Dated Mar. 21, 2012	OJSC "TAIF-NK"	Manufacturing and <b>supply of KSM-X catalyst</b> for alkali regeneration at PPBBF sweetening block	50% of used KSM catalyst was replaced by KSM-X catalyst which is resistant to amines present in the regenerated alkaline solution	OJSC "TAIF-NK" Promzona, Nizhnekamsk, Tatarstan, Russian Federation, 423570	Director of Gasoline production Plant at OJSC "TAIF-NK" ILSHAT G. Fatykhov +7(8555)38-17-47
49	№12-3 Dated Feb. 17, 2012	ORLEN Lietuva	Manufacturing and <b>supply of KSM catalyst</b> according to Technical Specification 2175-043-02069639-2003 in order to replace former KS-2 catalyst for BBF sweetening	12 m <sup>3</sup> of KSM catalyst for BBF sweetening block was manufactured and supplied to replace KS-2 catalyst that was used for 15 years	"ORLEN Lietuva" 75, Majeikiu str., Juodeikiai, Majeikiai district, Lithuania, LT-89467	First deputy General director of "ORLEN Lietuva" Victoras Vasilavichus Tel.: +370 443 92627 Fax: +370 443 92625

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50	02Д00584/11 Dated Oct. 24, 2011	OJSC "Slavneft-YaNOS"	Manufacturing and <i>supply of KSM-X catalyst</i> according to Technical Specification 2175-043-02069639-2003 for regeneration of mercaptide containing alkaline solution at reconstructed PPBBF sweetening block	15 m <sup>3</sup> of heterogeneous KSM-X catalyst was manufactured and supplied	OJSC "Slavneft-YaNOS" 130, Moscowave., Yaroslavl, Russian Federation, 150000	Equipment and General affairs Director at OJSC "Slavneft-YaNOS" Vladimir F. Zhelyazkov +7(4852)44-03-43
51	№12-6/10 Dated Sep.27, 2010	LLC "KEDR-89"	<b>Basic Design</b> for liquefied gases sweetening of saturated and unsaturated sections at OJSC "ROSNEFT-Syzran Refinery"	<b>Basic Design</b> was issued for liquefied gases sweetening from mercaptans at OJSC "ROSNEFT-Syzran Refinery"	OJSC "ROSNEFT-Syzran Refinery" 1, Astrakhanskaya str., Syzran, Samara region, Russian Federation, 446009	General Director of LLC "KEDR-89", Scientific and Production Company Yuriy N. Lebedev +7(495)465-01-59
52	№12-05/10/ No65-1447/10 Dated Aug.18, 2010	OJSC "TAIF-NK"	Consulting at commissioning of PPBBF sweetening block with KSM catalyst	Recommendations are given for alkali regeneration block in order to replace homogeneous catalyst - IVKAZ to heterogeneous KSM catalyst	Gasoline production plant of OJSC "TAIF NK" Promzona, Nizhnekamsk, Tatarstan, Russian Federation, 423570	Director of Gasoline production Plant at OJSC "TAIF NK" ILSHAT. G. Fatykhov +7(8555)38-17-47
53	№12-02/10/HHOC100238 Dated Mar. 31, 2010	LLC "LUKOIL-NNOS"	Designer's technical supervision at commissioning of butane fraction (BF) sweetening unit at AGFU, with regeneration of alkali in the presence of KSM catalyst	Start-up of BF sweetening unit with oxidative regeneration of alkaline solution in the presence of KSM catalyst. Results achieved: residual content of mercaptan sulfur less than 5 ppmw and total sulfur less than 10 ppmw	LLC "LUKOIL-NNOS", Kstovo, Nizhniy Novgorod region, Russian Federation, 606200	Chief Technologist of LLC "LUKOIL-NNOS" German G. Vasilev +7(83145) 5-30-82

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54	№12-07/09-1 Dated Feb.09, 2010	LLC RBC-Holding	<b>Basic Design</b> for the reconstruction of PPBBF sweetening block of MTBE Unit in order to increase the plant capacity OJSC "Slavneft – YaNOS"	<b>Basic Design</b> was issued for the reconstruction of PPBBF Unit with the use of improved KSM-X catalyst	OJSC "Slavneft – YaNOS"130, Moscow ave., Yaroslavl, Russian Federation, 150000	Chief Technologist of LLC RBC-Holding Sergey G. Dvornikov +7(495)954-35-28
55	№12-01/09/HHOCO 90042 Dated Jan.31,2009	LLC "LUKOIL-NNOS"	<b>Supply of KSM catalyst</b> for mercaptide saturated alkaline solution regeneration	11.5 m <sup>3</sup> of KSM catalyst was supplied to LLC "LUKOIL-NNOS"	LLC"LUKOIL-NNOS", Kstovo, Nizhniy Novgorod region, Russian Federation, 606200	Chief Technologist of LLC "LUKOIL-NNOS" German G. Vasilev +7(83145) 5-30-82