

Datum izdavanja dodatka: 11.09.2015.

*Issue date of annex: 11.09.2015.*

Zamjenjuje dodatak od:

*Replaces Annex dated:*

**Dodatak Sertifikatu o akreditaciji sa akreditacionim brojem K<sub>c</sub> 11.03**

*Annex to Accreditation Certificate - Accreditation Number K<sub>c</sub> 11.03*

**Standard: MEST EN ISO/IEC 17020 :2013**

**Datum dodjele/ obnavljanja akreditacije:**

*Date of granting/ renewal of accreditation*

12.09.2011./ 11.09.2015.

**Akreditacija važi do: 10.09.2019.**

*Accreditation is valid to: 10.09.2019.*

**Akreditovano kontrolno tijelo tipa C**

*Accredited Inspection Body type C*

**ENING d.o.o. Nikšić**  
**Kontrolno tijelo, Tip C**  
**Straševina b.b. Nikšić**

**Područje akreditacije / *The scope of accreditation***

Kontrolisanje postrojenja za tečni naftni gas, posuda pod pritiskom, ventila sigurnosti, kotlovskih postrojenja, gorionika, hidroizolacije, podzemnih rezervoara i cjevovoda i kontrola debljine metalnih i nemetalnih materijala, instalacija za razvod i distribuciju vode i vazduha (sistemi grijanja, hlađenja i klimatizacije)

*Inspection of LPG facilities, pressures vessels, safety valves, boiler plants, burners, hydroisolations of underground tanks and pipelines and control of thickness of metallic and nonmetallic materials, installation for divorce and distribution of water and air (systems of heating, cooling and air conditioning)*

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**Detaljan obim akreditacije/ Detailed scope of accreditation**

**ENING d.o.o Nikšić , Kontrolno tijelo, Straševina b.b. Nikšić**

\* Metoda kontrolisanja se sprovodi na terenu

\*\* Metoda kontrolisanja se sprovodi u Kontrolnom tijelu i na terenu

R. b. Or. No	Oblast kontrolisanja <i>Field of inspection</i>	Vrsta kontrolisanja – karakteristike koje se kontrolišu <i>Type of inspection – characteristics to be controlled</i>	Propis, standard ili validovana metoda kontrolnog tijela <i>Regulation, standard or valid method of the Inspection Body</i>
1	<p><b>Postrojenja za tečni naftni gas</b> <i>Liquefied petroleum gas facilities</i></p> <p><b>Stabilne posude pod pritiskom za tečni naftni gas</b> <i>Fixed pressure vessels for LPG</i></p> <p><b>Instalacije za tečni naftni gas</b> <i>Installations for LPG</i></p>	<p>**Pregled i kontrola konstrukcije posude pod pritiskom za tečni naftni gas prije stavljanja u upotrebu i u toku upotrebe</p> <p><i>Examination and control of pressure vessels design for liquefied petroleum gas before putting into service and during the course of usage</i></p>	<p>Pravilnik o tehničkim normativima za stabilne posude pod pritiskom ("Sl. list SFRJ" br. 16/83 i 26/71) (čl.94,95 i 96)</p> <p><i>Rulebook on technical standards for fixed pressure vessels ("Official Gazette of Yugoslavia", No. 16/83 and 26/71) (Art. 94, 95 and 96)</i></p>
	<p><b>Autocistjerne za tečni naftni gas</b> <i>LPG tankers</i></p> <p><b>Zavareni čelični rezervoari za propan butan za vozila sa pogonom na TNG</b> <i>Welded steel propane butane cylinders for LPG powered vehicles</i></p>	<p>* Unutrašnji pregled i kontrola stabilne posude pod pritiskom za tečni naftni gas</p> <p><i>Internal examination and control of fixed pressure vessels for LPG</i></p>	<p>Pravilnik o tehničkim normativima za stabilne posude pod pritiskom ("Sl. list SFRJ" br. 16/83 i 26/71) (čl.101,102 i 103)</p> <p><i>Rulebook on technical standards for fixed pressure vessels ("Official Gazette of Yugoslavia", No. 16/83 and 26/71) (Art. 101,102 and 103)</i></p>
		<p>* Spoljašnji pregled i kontrola stabilne posude pod pritiskom za tečni naftni gas</p>	<p>Pravilnik o tehničkim normativima za stabilne posude pod pritiskom ("Sl. list SFRJ" br. 16/83 i 26/71) (čl.104 i 105)</p>

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		<i>External examination and control of fixed pressure vessels for LPG</i>	<i>Rulebook on technical standards for fixed pressure vessels (“Official Gazette of Yugoslavia”, No. 16/83 and 26/71)<sup>(1)</sup>(Art. 104 and 105 )</i>
		* Vanredni pregledi i kontrole stabilne posude pod pritiskom za tečni naftni gas  <i>Extraordinary examinations and controls of fixed pressure vessels for LPG</i>	Pravilnik o tehničkim normativima za stabilne posude pod pritiskom ("Sl. list SFRJ" br. 16/83 i 26/71) (čl.106)  <i>Rulebook on technical standards for fixed pressure vessels (“Official Gazette of Yugoslavia”, No. 16/83 and 26/71)(Art. 106 )</i>
		** Kontrolisanje kompletnosti tehničke dokumentacije stabilne posude pod pritiskom za tečni naftni gas  <i>Control of completeness of the technical documentation for fixed pressure vessels for LPG</i>	Pravilnik o tehničkim normativima za stabilne posude pod pritiskom ("Sl. list SFRJ" br. 16/83 i 26/71) (čl.111) JUS M.E2.153  <i>Rulebook on technical standards for fixed pressure vessels (“Official Gazette of Yugoslavia”, No. 16/83 and 26/71)(Art. 111 )</i> JUS M.E2.153
		** Redovni pregled i kontrola pokretne posude pod pritiskom za tečni naftni gas	Pravilnik o tehničkim normativima za pokretne zatvorene sudove za komprimirane, tečne i pod pritiskom rastvorene gasove (Sl. list SFRJ br. 25/80,9/86

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		<ul style="list-style-type: none"> <li>- kontrola stanja spoljne i unutrašnje površine posude;</li> <li>- kontrola oblika, mjera i spostvene mase posude;</li> <li>- kontrola posude na čvrstoću;</li> <li>- kontrola posude na zaptivenost</li> </ul> <p><i>Regular examination and control of movable pressure vessels for LPG</i></p> <ul style="list-style-type: none"> <li>- control of the condition of external and internal surfaces of vessels;</li> <li>- control of the shape, measures and own mass of vessels;</li> <li>- strength control of vessels;</li> <li>- tightness (leakage) control of vessels</li> </ul>	<p>Sl.list SRJ br.21/94,56/95 i 1/03) -čl. 25,26 i 29 -čl. 20,25,26 i 28</p> <p>-čl. 25, 26 i 30 -čl. 25, 26 i 30</p> <p><i>Rulebook on technical standards for movable closed vessels used for compressed, liquefied and gases dissolved under pressure (Official Gazette of SFR Yugoslavia No. 25/80, 9/86, Official Gazette of FR Yugoslavia No. 21/94, 56/95 and 1/03)</i></p> <p>-Art. 25,26 and 29 -Art. 20,25,26 and 28 -Art. 5, 26 and 30 - Art. 25, 26 and 30</p>
		<p>**Vizuelni pregled i kontrola konstrukcije, mase i kvaliteta izrade, rezervoara,mase, zapremine, deklarisanja i označavanja rezervoara za propan butan za vozila sa pogonom na TNG</p>	<p>JUS M.Z2.570 1984. (t.2, t.5-9) MEST EN 12805:2011</p> <p>Pravilnik o tehničkim zahtjevima i drugim uslovima za uređaje i opremu za pogon motornih vozila na tečni naftni ili prirodni gas (“Sl. List CG” br. 23/13) (čl. 5-9,54 i 55)</p>

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		<i>Visual examination and control of the construction, mass and quality of design of the cylinder, mass, volume, declaration and marking of the cylinder for propane butane for LPG powered vehicles</i>	JUS M.Z2.570 1984. (Art 2, 5-9) MEST EN 12805:2011  <i>Rulebook on technical requirements and other conditions for devices and equipment for LPG or natural gas powered motor vehicles (Official Gazette of Montenegro No. 23/13), (Art.5-9, 54 and 55)</i>
2	<b>Ventili sigurnosti</b> <i>Safety valves</i>	**Kontrolisanje novih proizvoda Periodična kontrola funkcionalnosti i podešenosti ventila sigurnosti; Vanredna kontrola ventila sigurnosti nakon havarija i rekonstrukcija Kontrolisanje kompletnosti tehničke dokumentacije  <i>Control of new products; Periodic control of functionality and settings of safety valves; Extraordinary control of safety valves after accidents and reconstructions; Control of completeness of the technical documentation</i>	Pravilnik o tehničkim normativima za stabilne posude pod pritiskom ("Sl. list SFRJ" br. 16/83 i 26/71) (čl.58. – 88)  MEST EN ISO 4126-1: 2011. (t.6.3,6.4, 7.1.4 a,7.1.4 e,7.2.1a,7.2.3)  <i>Rulebook on technical standards for fixed pressure vessels ("Official Gazette of Yugoslavia", No. 16/83 and 26/71) (Art. 58– 88)</i>  MEST EN ISO 4126-1: 2011. (t.6.3,6.4, 7.1.4 a,7.1.4 e,7.2.1a,7.2.3)
3	<b>Posude pod pritiskom</b> <i>Pressure vessels</i>		Pravilnik o tehničkim normativima za stabilne posude pod pritiskom ("Sl. list SFRJ" br. 16/83 i 26/71)

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	<p><b>Stabilne posude pod pritiskom</b></p> <p><b>Opšte namjene</b></p> <p><i>Fixed pressure vessels</i></p> <p><i>General purpose</i></p>	<p>*Kontrolisanje prije puštanja u rad Unutrašnji pregled i kontrola Spoljašnji pregled i kontrola Vanredni pregled i kontrola Kontrolisanje kompletnosti tehničke dokumentacije</p> <p><i>Control prior to putting into service Internal examination and control External examination and control Extraordinary inspection and control Control of completeness of the technical documentation</i></p>	<p>-čl.93,94, 95 i 96 - čl.115 -čl.48 i 105 -čl. 96, 97,110 i 111 -čl. 111 i 115</p> <p><i>Rulebook on technical standards for fixed pressure vessels (“Official Gazette of Yugoslavia”, No. 16/83 and 26/71)</i> - Art.93,94, 95 and 96 - Art. 115 - Art.48 and 105 - Art.96, 97, 110 and 111 - Art.111 and 115</p>
	<p><b>Stabilne posude pod pritiskom</b></p> <p>Tečni ugljen dioksid</p> <p><i>Liquefied carbon dioxide</i></p>	<p>**Kontrolisanje prije puštanja u rad Unutrašnji pregled i kontrola Spoljašnji pregled i kontrola Vanredni pregled i kontrola Kontrolisanje kompletnosti tehničke dokumentacije</p> <p><i>Control prior to putting into service Internal examination and control External examination and control Extraordinary inspection and control Control of completeness of the</i></p>	<p>Pravilnik o tehničkim normativima za pregled i ispitivanje stabilnih sudova pod pritiskom za tečni ugljen- dioksid ("Sl. list SFRJ", br. 76/90)</p> <p>-čl.3 -čl.3,16 i 17 -čl.3 i 18 -čl.3 i 19 -čl.4 i 20</p> <p><i>Rulebook on technical standards for examination and testing of fixed pressure vessels for liquefied carbon dioxide(«Official Gazette of SFR Yugoslavia», No. 76/90)</i> - Art. 1.3</p>

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		<i>technical documentation</i>	<ul style="list-style-type: none"> <li>- Art. 3,16 and 17</li> <li>- Art. 3 and 18</li> <li>- Art. 3 and 19</li> <li>- Art. 4 and 20</li> </ul>
	<p><b>Stabilne posude pod pritiskom</b></p> <p>Tečni atmosferski gasovi</p> <p><i>liquefied atmospheric gases</i></p>	<p>** Kontrolisanje prije puštanja u rad</p> <p>Unutrašnji pregled i kontrola</p> <p>Spoljašnji pregled i kontrola</p> <p>Vanredni pregled i kontrola</p> <p>Kontrolisanje kompletnosti tehničke dokumentacije</p> <p><i>Control prior to putting into service</i></p> <p><i>Internal examination and control</i></p> <p><i>External examination and control</i></p> <p><i>Extraordinary inspection and control</i></p> <p><i>Control of completeness of the technical documentation</i></p>	<p>Pravilnik o tehničkim normativima za stabilne sudove pod pritiskom za tečne atmosferske gasove "Sl. list SFRJ", br. 9/86 (čl.3, 4, 1. i 21)</p> <p><i>Rulebook on technical standards for fixed pressure vessels for liquefied atmospheric gases (»Official Gazette of SFR Yugoslavia«, No. 9/86)</i></p> <p><i>(Art. 3, 4, 18 and 21)</i></p>
	<p><b>Posude pod pritiskom</b></p> <p><b>Pokretni sudovi pod pritiskom</b></p> <p>Cistjerne za transport tečnih goriva</p> <p>Cistjerne za transport komprimovanih, tečnih i pod pritiskom rastvorenih gasova</p> <p>Pokretni zatvoreni sudovi za komprimovane, tečne i pod pritiskom rastvorene gasove (boce za tehničke gasove: O<sub>2</sub>, CO<sub>2</sub>, N<sub>2</sub>, Ar,...)</p>	<p>** Redovni pregled i kontrola</p> <p>Vanredni pregled i kontrola</p> <p>Pregled i kontrola prije prve upotrebe suda</p> <p>Kontrolisanje kompletnosti tehničke dokumentacije</p>	<p>Evropski sporazumi o međunarodnom prevozu opasnih materija u drumskom i željezničkom saobraćaju – ADR i RID</p> <ul style="list-style-type: none"> <li>- t.6.7.2.19.4 – t.6.7.2.19.6</li> <li>t.6.7.2.19.9 – t.6.7.2.19.11</li> <li>-t.6.7.2.19.7 ; t.6.7.2.19.9 – t.6.7.2.19.11</li> <li>-t.6.7.2.19.2 – t.6.7.2.19.3</li> <li>t.6.7.2.19.9 – t.6.7.2.19.11</li> </ul>

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	<p><i>Movable pressure vessels</i></p> <p><i>Tankers for transport of liquefied fuels;</i></p> <p><i>Tankers for transport of compressed, liquefied and gases dissolved under pressure;</i></p> <p><i>Movable closed vessels for compressed, liquefied and gases dissolved under pressure (bottles for technical gases: O<sub>2</sub>, CO<sub>2</sub>, N<sub>2</sub>, Ar,...)</i></p>	<p><i>Regular examination and control</i></p> <p><i>Extraordinary examination and control</i></p> <p><i>Examination and control prior to the first usage of vessels</i></p> <p><i>Control of completeness of the technical documentation</i></p>	<p><i>European Agreement Concerning the International Carriage of Dangerous Goods by Road and Rail – ADR &amp; RID</i></p> <p><i>- art.6.7.2.19.4 – 6.7.2.19.6;</i> <i>art.6.7.2.19.9 – 6.7.2.19.11;</i> <i>- art.6.7.2.19.7 ;6.7.2.19.9 – 6.7.2.19.11</i> <i>- art.6.7.2.19.2 – 6.7.2.19.3</i> <i>art.6.7.2.19.9 – 6.7.2.19.11</i></p> <p><i>Pravilnik o tehničkim normativima za pokretne zatvorene sudove za komprimirane, tečne i pod pritiskom rastvorene gasove (Sl.list SRJ br.21/94,56/95 i 1/03)</i></p> <p><i>- čl.25.,26. I 29.</i> <i>- čl.25. i 27.</i> <i>- čl.28.</i></p> <p><i>JUS ISO 6406: 1997</i> <i>JUS M.E2.153</i> <i>JUS M.Z2.500</i> <i>JUS M.Z2.501</i> <i>MEST EN 1089-3:2011</i> <i>MEST EN 11621:2011</i></p> <p><i>Rulebook on technical standards applying to movable closed vessels for compressed, liquefied and gases dissolved under pressure (Official Gazette of FR Yugoslavia, No. 21/94, 56/95 and 1/03 )</i></p> <p><i>- Art.25,26 and 29.</i> <i>- Art.25 and 27</i></p>



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			- Art.28 JUS ISO 6406: 1997 JUS M.E2.153 JUS M.Z2.500 JUS M.Z2.501 MEST EN 1089-3:2011 MEST EN 11621:2011
4	<b>Kotlovska postrojenja grupe I, II i III</b>  <i>Boiler plants type I, II, III</i>	*Kontrolisanje novih proizvoda Redovni pregledi i kontrole: - spoljašnji pregled - unutrašnji pregled Kontrolisanje kompletnosti tehničke dokumentacije  <i>Control of new products -Regular examinations and controls: -External examination -Internal examination -Control of completeness of the technical documentation</i>	JUS M.E2.214: 1993 ( t.6 ) JUS M.E2.209: 1993 JUS M.E2.216: 1993 JUS M.E2.205: 1994
5	<b>Hidroizolacija podzemnih rezervoara i cjevovoda</b>  <i>Hydro-insulation of underground tanks and pipelines</i>	*Kontrola hidroizolacije metodom elektroprobojnosti Kontrolisanje prije puštanja u upotrebu Redovna kontrola hidroizolacije Vanredna kontrola hidroizolacije  <i>Control of hydro-insulation using the electric permeability method Control prior to putting into service Regular control of hydro- insulation Extraordinary control of hydro- insulation</i>	DIN 4681:1984 Dio 2           DIN 4681:1984 Part 2

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6	<b>Gorionici</b> <i>Burners</i>	*Kontrola funkcionalnosti Kontrola i podešavanje kvaliteta sagorijevanja Kontrola tehničke dokumentacije  <i>Control of functionality Control and settings of the burning quality Control of the technical documentation</i>	MEST EN 676:2011 ( t.4.4) MEST EN 676:2011 ( t.4.4.6, t.4.4.7,t 5, Annex A,C) MEST EN 676:2011 ( t.6.5)  <i>MEST EN 676:2011 (art 4.4) MEST EN 676:2011 (art.4.4.6, art. 4.4.7, art 5, Annex A,C) MEST EN 676:2011 ( art.6.5)</i>
7	<b>Kontrolisanje debljine materijala metodom bez razaranja</b>  <i>Control of thickness of materials using non-destructive methods</i>	*Kontrola i mjerenje debljine ultrazvukom  <i>Control and measurement of thickness by ultrasound</i>	MEST EN 14127:2012
8	<b>Instalacija za razvod i distribuciju vode (sistemi grijanja, hlađenja i klimatizacije)</b>  <i>Installations for transfer and distribution of water (heating, cooling and air conditioning systems)</i>	*Mjerenje protoka vode na ručnim regulacionim ventilima, mjernim blendama, mlaznicama i venturijevim cijevima  <i>Measurement of water flow on manual valves, metering stations, nozzles and Venturi tubes</i>	MEST EN ISO 5167-1:2010 MEST EN ISO 5167-2:2010 MEST EN ISO 5167-3:2010 MEST EN ISO 5167-4:2010
9	<b>Instalacija za razvod i distribuciju vazduha (sistemi, grijanja, hlađenja i klimatizacije)</b>	*Mjerenje protoka vazduha kroz pravougaone i kružne kanale Mjerenje protoka vazduh kroz distributivne elemente Mjerenje brzine vazduh kroz pravougaone i kružne kanale i distributivne elemente	SRPS ISO 3966:2013

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	Installations for transfer and distribution of air (heating, cooling and air conditioning systems)	Measurement of air flow through rectangular and circular ducts Measurement of air flow through distribution elements Measurement of air velocity through rectangular and circular ducts and distribution elements	
		Ispitivanja curenja vazdušnih kanala  <i>Tests for leakage of air ducts</i>	MEST EN 1507:2012 MEST EN 12237:2012

Ovaj obim važi samo uz Sertifikat o akreditaciji sa akreditacionim brojem Kc 11.03 od 11.09.2015.

*This Scope of accreditation is valid only with accreditation certificate No Li 11.03 issued on 11.09.2015.*

**Direktor ATCG**  
**Ranko Nikolić**