



REPUBLIC OF CROATIA

MINISTRY OF ENVIRONMENTAL
AND NATURE PROTECTION

TAIEX-ECRAN

Multi country Capacity Building workshop on compliance with environmental legislation

Sarajevo, Bosnia and Herzegovina , 17 – 19 November 2015

IED – Monitoring and reporting

Ministry of Environmental and Nature Protection

Brigitte Mrvelj Čečatka, senior environmental protection inspector
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Content

- **Legal base**
- **Croatian Environmental Pollution Register (EPR)**
- **Monitoring emissions from IED installation**
- **Reporting on pollutant release, transfer and depositing into the environment and on waste**

Legal base

- Directive 2010/75/EU on industrial emissions (IED) → main **EU instrument regulating pollutant emissions** from industrial installations
- integrated approach → permits must *take* into account the **whole environmental performance of installation covering emissions** to air, water and land, generation of waste, use of raw materials, energy efficiency, noise, prevention of accidents, restoration of the site upon closure..
- **permit conditions** - Art. 14., including emission limit values for polluting substances, must be based on the Best Available Techniques (BAT)



Legal base

Article 14

Permit conditions

1. Member States shall ensure that the permit includes all measures necessary for compliance with the requirements of Articles 11 and 18.

Those measures shall include at least the following:

(a) emission limit values for polluting substances listed in Annex II, and for other polluting substances, which are likely to be emitted from the installation concerned in significant quantities, having regard to their nature and their potential to transfer pollution from one medium to another;

(b) appropriate requirements ensuring protection of the soil and groundwater and measures concerning the monitoring and management of waste generated by the installation;

(c) suitable emission monitoring requirements specifying:

- (i) measurement methodology, frequency and evaluation procedure; and*
- (ii) where Article 15(3)(b) is applied, that results of emission monitoring are available for the same periods of time and reference conditions as for the emission levels associated with the best available techniques;*

Legal base

Permits should include appropriate requirements to protect the environment and monitoring requirements:

Article 16

Monitoring requirements

- 1. The monitoring requirements referred to in Article 14(1)(c) shall, where applicable, be based on the conclusions on monitoring as described in the BAT conclusions.*
- 2. The frequency of the periodic monitoring referred to in Article 14(1)(e) shall be determined by the competent authority in a permit for each individual installation or in general binding rules.*

In Croatia – monitoring measures prescribed in Book of requirements/part of each EP



Legal base

IED ensures that the **public has a right to participate** in the decision-making process, and to be informed of its consequences, by having access to permit applications, permits and the results of the monitoring of releases:

Article 24

Access to information and public participation in the permit procedure

- 3. The competent authority shall also make available to the public, including via the Internet:*
- ..(b) the results of emission monitoring as required under the permit conditions and held by the competent authority.*



Pollutant Release and Transfer Register

In addition ➡ through the **European Pollutant Release and Transfer Register (E-PRTR) emission data** reported by Member States are made accessible in a public register, which is intended to provide environmental information especially on major industrial activities



Croatia - Environmental Pollution Register (EPR)

Electronic software (application) - keep and maintain
Croatian Agency for Environment and Nature



Environmental Pollution Register (EPR)

Legal base:

- Regulation (EC) No 166/2006 of the European Parliament and of the Council of 18 January 2006 concerning the establishment of a European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC – **binding entirely and directly applicable in all Member States**
- Ordinance on the Environmental Pollution Register (Official Gazette 87/15, 35/08)




Environmental Pollution Register (EPR)

Since **2007** the EPR contains data reported annually by cca **4800 facilities** (industrial and non-industrial activities) covering **410 economic activities** (more then E-PRTR) within the following **11 sectors**:

- energy (01,02,03)
- production and processing of metals (04)
- mineral industry (05)
- chemical industry (06)
- waste and waste water management (07)
- paper and wood production and processing (08)
- intensive livestock production and aquaculture (09)
- animal and vegetable products from the food and beverage sector (10) and
- other activities (11).

Environmental Pollution Register (EPR)




Prijavljeni korisnik: Inspekcija_Manenica
[Odjava](#)


Glavni izbornik

- Glavni izbornik
- Početna stranica
- Izvješća
- Upiti / Pretraživanja
- Uputstva
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- Sigurnosne postavke
- Promjena lozinke


Registar onečišćavanja okoliša v4.0


 [Prikaži/Sakrij izbornik](#)

Pregled podataka

Pregled podataka za godinu: 2014 

Filter

Tvrtka


=


Traži

☒ I ☐ ILI ☐ NE

Sljedeći kriterij [\[Kako koristiti filter?\]](#)

Broj zapisa: 0





AGENCIJA ZA
ZAŠTITU OKOLIŠA

Agencija za zaštitu okoliša, Trg maršala Tita 8, 10 000 Zagreb, Hrvatska
info@azo.hr, ©2015 AZO. Sva prava pridržana. [Uvjeti korištenja](#)

Environmental Pollution Register (EPR)

- For each facility information is provided concerning the amounts of pollutant releases to air, water and land as well as produced, collected and treated waste → **thresholds are lower than in E-PRTR Regulation**
- Information is provided on a list of **132 key pollutants** falling under the following 5 groups:
 - General indicators
 - Inorganic substances
 - Organic substances
 - Metals
 - Particulates



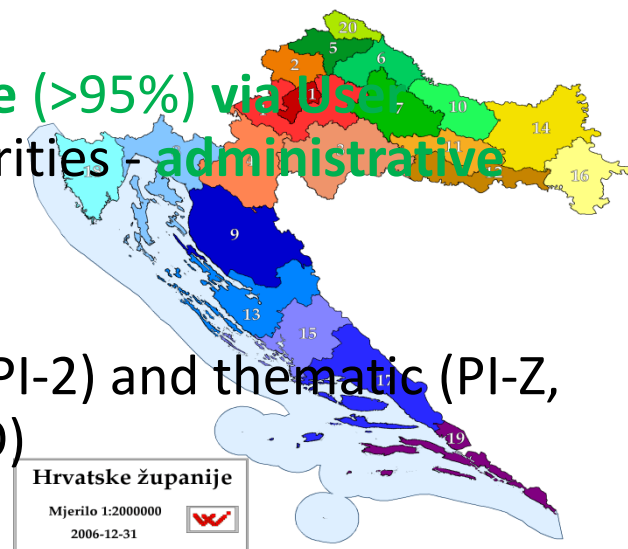
Environmental Pollution Register (EPR)

A facility has to report data **until 31 March** if it:

- falls under at least **one of the economic activities** listed in Annex I and **release at least one of the pollutants** from Annex II of EPR Ordinance
- generates/transfers waste off-site in amount **more than 0,5t/year (hazardous) and 20t/year (non-hazardous)**
- releases **pollutants which exceed thresholds** specified for each media - air, water/sea and land - in Annex II of EPR Ordinance

Environmental Pollution Register (EPR)


- Data reported by individual facilities **on-line (>95%) via User Accounts** to the relevant competent authorities – **administrative body in a counties (21)**
- Data are reported on forms: general (PI-1, PI-2) and thematic (PI-Z, PI-V, PI-T, PL-PPO, PL-SKO, PL-SPO, PL-OPKO)
- The counties authorities compile, **check the quality, together with Environmental Protection Inspection**, and verify on-line reported data by 15th May
- All counties submit then data to CAEN for compilation and further dissemination



Environmental Pollution Register (EPR)

- Croatia through CAENP will be now reporting for the first time - **2014 reporting year**
- Data / **Report (Annex III of E-PRTR Regulation)** has to be submitted till June 2016
- **detailed feedback** will be provided concerning the quality of the E-PRTR data - **checks covered** an evaluation of the number of facilities and release reports, amounts of releases and transfers reported, confidentiality claims, accidental releases, etc.
- In case errors are found - possibility to correct the data reported

Environmental Pollution Register (EPR)

- Provide governments, competent authorities, policymakers and scientists with a coherent and wide industrial release and transfers database
- Used by Fund for Environmental Protection and Energy Efficiency to calculate and charge fee for release of CO₂ , SO₂ and NO₂  FOND ZA ZAŠTITU OKOLIŠA
I ENERGETSKU UČINKOVITOST
- Used for preparation of the Annual Report on the monitoring of air pollutants from stationary sources in Croatia (in accordance with the national regulations)
- Used for making a series of other reports under international treaties and EU directives - Annual report on greenhouse gas inventory , United Nations Framework Convention on Climate Change UNFCCC , Convention on Transboundary Air Pollution (CLRTAP) and accompanying protocols , Basel Convention on the control of Transboundary Movements of Hazardous Wastes and Convention on the protection and Sustainable Use of the Danube River (ICPDR)
- Used for other reporting obligations to EU e.g. Eionet Reporting obligations WISE - SoE Reporting: Emissions..

Environmental Pollution Register (EPR)

Public access to EPR data available on several ways:

- **Direct** access via allocated **User Account (cca 56770 visits/year)** and **2 internet browsers**: Preglednik ROO and HNPROO (linked to E-PRTR)

 Preglednik registra onečišćavanja okoliša

 [Preglednik](#) [Upute za korištenje](#) [Pregled šifrnika](#) [Pojmovnik Preglednika ROO](#)

Pretraživanje za godinu **2014**

Upit: **Opći podaci o organizacijskim jedinicama (PI-2)**

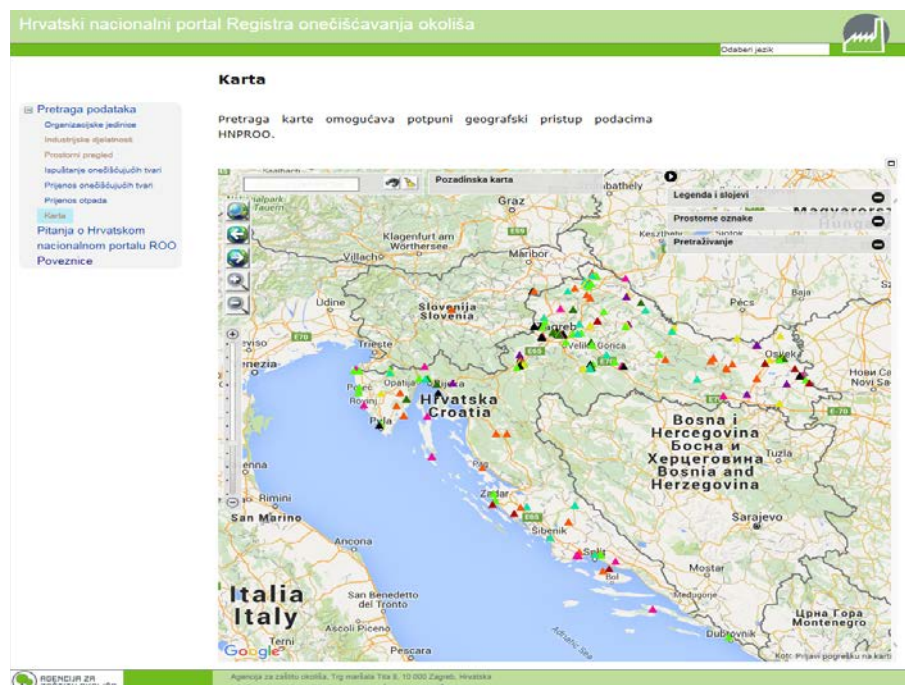
Filtar: Polje: **Županija** Operator: **=** Vrijednost: **Grad Zagreb** [Dodaj filter](#)

☒ Označi sve kolone ☒ Isključi sve

Kolone: ☒ Podaci o operateru

- ☒ Godina
- ☒ Županija
- ☒ Matični broj subjekta (MBS) ili matični broj obrta (MBO)
- ☒ OIB

[Izvrši](#) [Izvoz u Excel](#)



Environmental Pollution Register (EPR)

- **Indirect via Annual reports** on EPR, form „**Request for information**“ according to Act on right to access information (OG 25/13), phone or e- mail (info@azo.hr and roo@azo.hr), **EPR help desk** (<http://helpdesk.azo.hr/>)

16.10.2015.

Registar onečišćavanja okoliša (ROO)

Registar onečišćavanja okoliša je skup podataka o izvorima, vrsti, količini, načinu i mjestu ispuštanja, prijenosa i odlaganja onečišćujućih tvari i otpada u okoliš.

Baza ROO

Hrvatski nacionalni portal Registra onečišćavanja okoliša (HINPROO)

Preglednik ROO

Obavijest obveznicima prijave podataka u 2015. godini

Korisnička podrška za prijavu podataka

Obzirom na mogućnost otežanog pristupa bazi ROO* krajem veljače uslijed istovremenog unosa velikog broja obveznika, molimo obveznike dostave podataka da ne čekaju krajnji rok već započnu sa unosom podataka što prije.

Skrećemo pažnju kako je objavljena aplikacija Industrija Helpdesk putem koje pružamo tehničku i stručnu podršku za bazu ROO Kao i ostala tematska područja Sektorskih pritiska. Molimo da za sva pitanja i upite kontaktirate Industrija Helpdesk kako bi svi korisnici imali osiguranu dostupnost adekvatnim izvorima informacija. Također Vas molimo za strpljivost prilikom prijave i čekanja na rješavanje upita. Aplikacija olakšava dostupnost informacija sudionicima procesa prikupljanja, obrade, kontrole i verifikacije podataka, pojednostavljuje distribuciju podataka korisnicima podataka/baza i ostaloj zainteresiranoj javnosti te usmjerava korisnika na traženo mjesto gdje se nudi lista ponuđenih odgovora što sve omogućuje kvalitetnije vođenje, obradu, selektiranje i objedinjavanje podataka.

Molimo obveznike dostave podataka da se za informacije vezane uz ispunjavanje obveze prijave podataka u ROO obrate nadležnom tijelu (Adresar županijskih upravnih odjela) zaduženom za vođenje poslova ROO.

Informacije o prijavi podataka o otpadu u prijelaznom razdoblju

Donošenjem Pravilnika o gospodarenju otpadom (NN 23/14) i Zakona o održivom gospodarenju otpadom (NN 94/13) došlo je do znatnih promjena u vođenju podataka o otpadu. U suradnji s Ministarstvom zaštite okoliša i prirode dogovoreno je prijelazno rješenje u obliku Uputa za prijavu podataka u postojeće obrasce za otpad ROO za 2014. izvještajnu godinu.

Podaci o godišnjim količinama oborina

Podaci o godišnjim količinama oborina za 2014. izvještajnu godinu dostupni su u aplikaciji ROO.

Prvo prikupljanje podataka za E-PRTR kroz ROO sustav

Ove će se godine prvi puta prikupljati podaci za Europski registar ispuštanja i prijenosa onečišćujućih tvari (E-PRTR), za prvu izvještajnu 2014. godinu. Podatke će Agencija za zaštitu okoliša dostaviti Europskoj komisiji najkasnije do kraja trećeg mjeseca 2016. godine u skladu s člankom 23. i 28. Pravilnika o registru onečišćavanja okoliša (NN 35/08), budući se Republika Hrvatska ulaskom u Europsku Uniju obvezala dostaviti podatke za E-PRTR.

Opće informacije

Objavljena je nova verzija aplikacije ROO koja će omogućiti jednostavniju i bržu prijavu podataka u bazu ROO. S ciljem unaprjeđenja radnih procesa baze ROO, molimo da Vaša zapažanja, prijedloge i primjedbe šaljete na roo@azo.hr i info@azo.hr.

Što je ROO?
Pravilnik o ROO
Priručnik za vođenje ROO
Obavijesti i dostava podataka
Primjeri ispunjenih obrazaca
Izvješća ROO
Najčešće postavljena pitanja
Korisni linkovi
ROO vijesti
Ulaz u bazu ROO

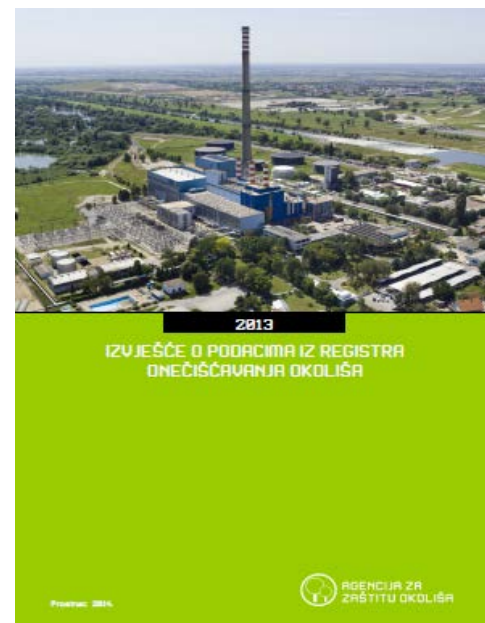
ISZO Informacijski sustav zaštite okoliša Republike Hrvatske

pojmovnik

kompletan pojmovnik

Dijeli

follow us regularly!



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30.11.2015.

Environmental Pollution Register (EPR)

- **Confidentiality of data** – according to Art. 12 of EPR Ordinance and Act on classified information (OG 79/07, 86/12)
- Facility marks confidential data → County authority approves
- **Less than 1% requests**
- Data regarding internal organization, capacity and technology used

CONFIDENTIAL

Follow - up

Administrative measure:

- Order reporting/submitting data in EPR

Misdemeanor fine at Court:

- 7.000 to 25.000 EUR for legal person
- Up to 2.000 EUR for responsible person



© Can Stock Photo - csp6152571

Environmental Pollution Register (EPR)

- All parties involved (operators, competent authorities, inspection, Agency) strive to achieve the highest possible degree of **completeness, consistency and accuracy** when reporting and processing data
- **Challenges:** coordination of all parties, expert and IT support of system

Aplikacija Industrija help desk



- Croatia (CAENP) proposed twinning project for 2016 for capacity building on reporting „Improvement of Environment Pollutant Register in Croatia and its integration into Croatain Environmental Information System CEIS”

Ferrous metal foundry –MIV d.d. VARAŽDIN

2.4. Ferrous metal foundry with a production capacity exceeding 20 tonnes per day.



Legal base - Regulation on Environmental permit (OG 8/14)

2. Production and processing of metals

2.1. Metal ore (including sulphide ore) roasting or sintering installations.

2.2. Installations for the production of pig iron or steel (primary or secondary fusion) including continuous casting, with a capacity exceeding 2,5 tonnes per hour.

2.3. Installations for the processing of ferrous metals:

(a) hot-rolling mills with a capacity exceeding 20 tonnes of crude steel per hour;

(b) smitheries with hammers the energy of which exceeds 50 kilojoules per hammer, where the calorific power used exceeds 20 MW;

(c) application of protective fused metal coats with an input exceeding 2 tonnes of crude steel per hour;

2.4. Ferrous metal foundries with a production capacity exceeding 20 tonnes per day.

2.5. Installations:

(a) for the production of non-ferrous crude metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic processes;

(b) for the smelting and alloyage of non-ferrous metals, including recovered products, (refining, foundry casting, etc.) with a melting capacity exceeding 4 tonnes per day for lead and cadmium or 20 tonnes per day for all other metals.

2.6. Installations for surface treatment of metals and plastic materials using an electrolytic or chemical process where the volume of the treatment vats exceeds 30 m³.





Environmental Permit

- **Environmental Permit - Issued 28th Jun 2013**
- **Compliance with BAT (best available techniques) for all installation until 1st July 2013, exception if negotiated in pre-accession**
- **1st January 2017- Operator MIV d.d., Varaždin**
- **31st December 2015 – Directive 1999/13/EZ VOC**
- **Subject to coordinated inspection –IRAM**



Elements of Environmental Permit

Integrated Environmental Conditions – Environmental Permit:

1. Environmental conditions

- 1.1 Activities
- 1.2 Processes
- 1.3 BAT
- 1.4. Waste management
- 1.5 Energy consumption and efficiency
- 1.6 Accident prevention

1.7 Monitoring (air, water, noise)

- 1.8 Restoration of site upon closure

2. ELVs

- 2.1 Air
- 2.2 Water
- 2.3 Noise

3. Condition outside of Installation - not specified

4. Improvement program

5. Safety work conditions – not specified

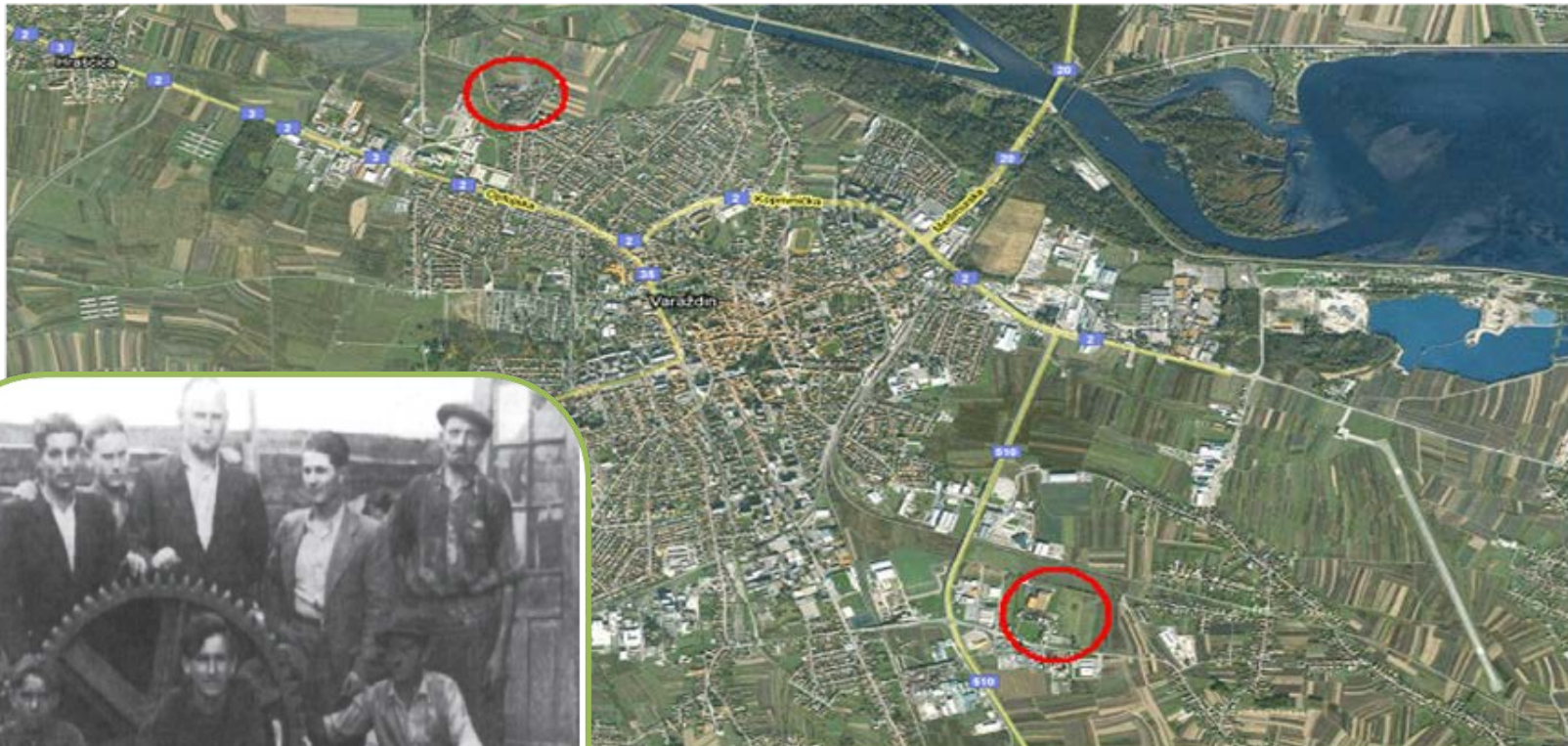
6. Data preservation obligation

7. Reporting to the public

8. Environmental fees



Ferrous metal foundry



Founded 1939, about 710 employees
34 t/day production of pig iron





PRODUCTS ASSORTMENT



PRODUCTS ASSORTMENT



Integrated approach

Raw material:

Pig iron 4.6000t

Scrap steel 2.300 t

Reused material 4.600

Ferolegure 100 t

Karburit 100 t

Auxiliaries:

Silica sand 98% 12.160 t

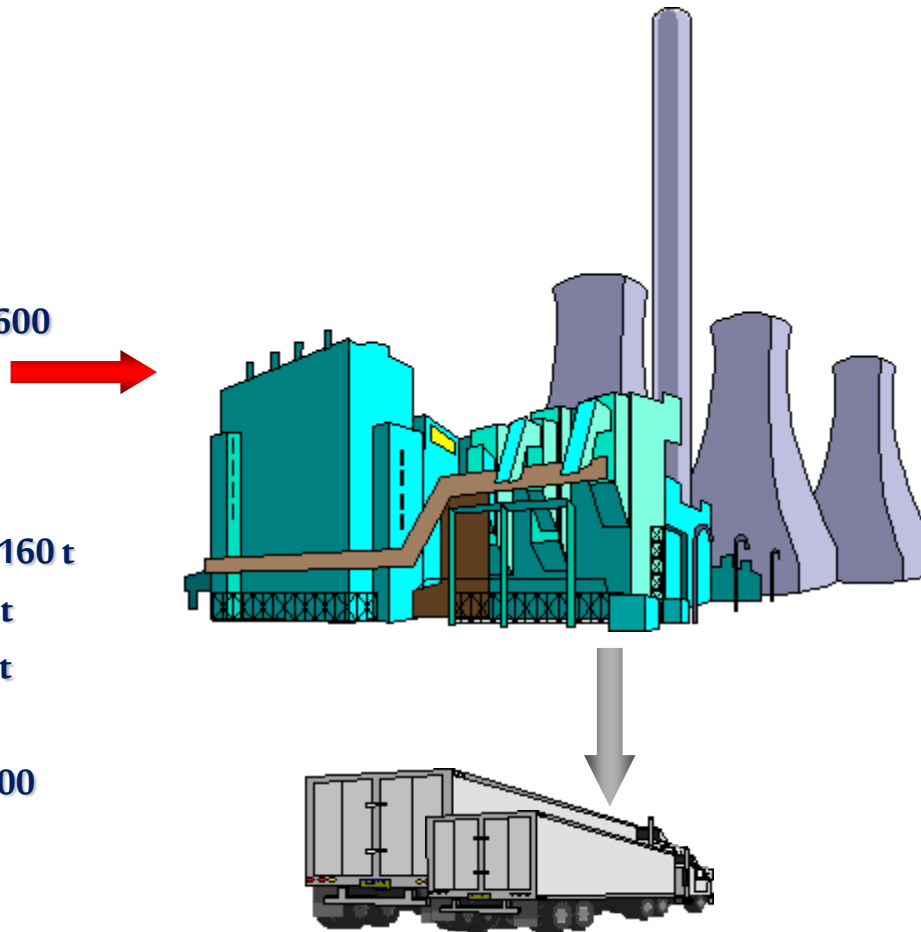
Technical gases 17 t

Liquefied CO2 417 t

El. energy 10.230.000
kWh

Gas 180.590 m3

Water 36.104. m3



Air Emissions

Water

Emissions

Waste



Noise

Emissions



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Ferrous metal foundry technology

- **Production of gray cast and nodular cast iron :**
 - **Model production**
 - **Molding (manual and mechanically) and Core making**
 - technology: CO2, BETA-SET, SCHELL (CRONING)
 - **Metal smelting**
 - **Melt processing**
 - **Finishing**





Auxiliary processes

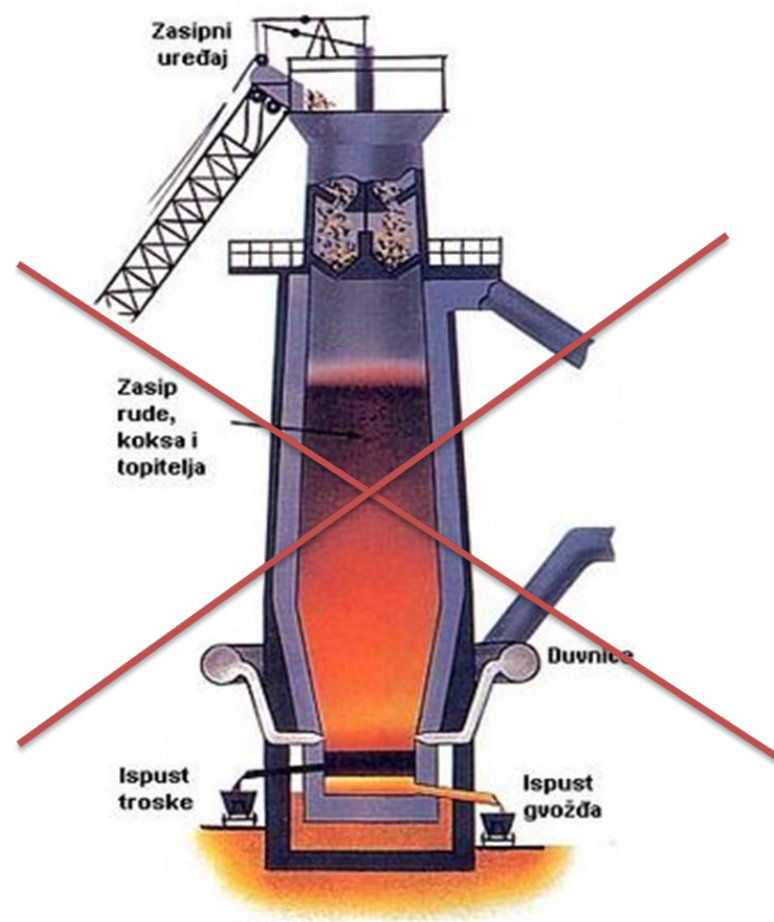
- **Molding at the molding machine**
- **Preparation / regeneration of molding sand**
- **Molding at the automatic line AFA 30**
- **Manual molding**
- **Core making - CO2 procedure**
- **Core making - BETA SET procedure**
- **Core making - SHELL (CRONING) procedure**
- **Cast cleaning**
- **Model production**



Replacement of furnace - BAT



BAT 550-650 kWh/t melts



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Slag removal from the furnace pot



- a) furnace with 2 pot and exhaust ventilation
- b) slag removal from the pot



Recycling cooling water system - BAT



Water consumption reduction of 70%



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Sand regeneration installation



Ratio of sand regeneration 90-94% BAT



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Monitoring – EP conditions

- **Description of measures to monitor emissions (monitoring), method of measurement, measurement frequency and evaluation of the measurement results from EP are based on BAT conclusions**
- **If emission of VOC exceeds 5 t/year - reporting obligation to Croatian Agency for Environmental and Nature Protection**
- **Initial measurement obligation for new sources and reconstruction of Installation**

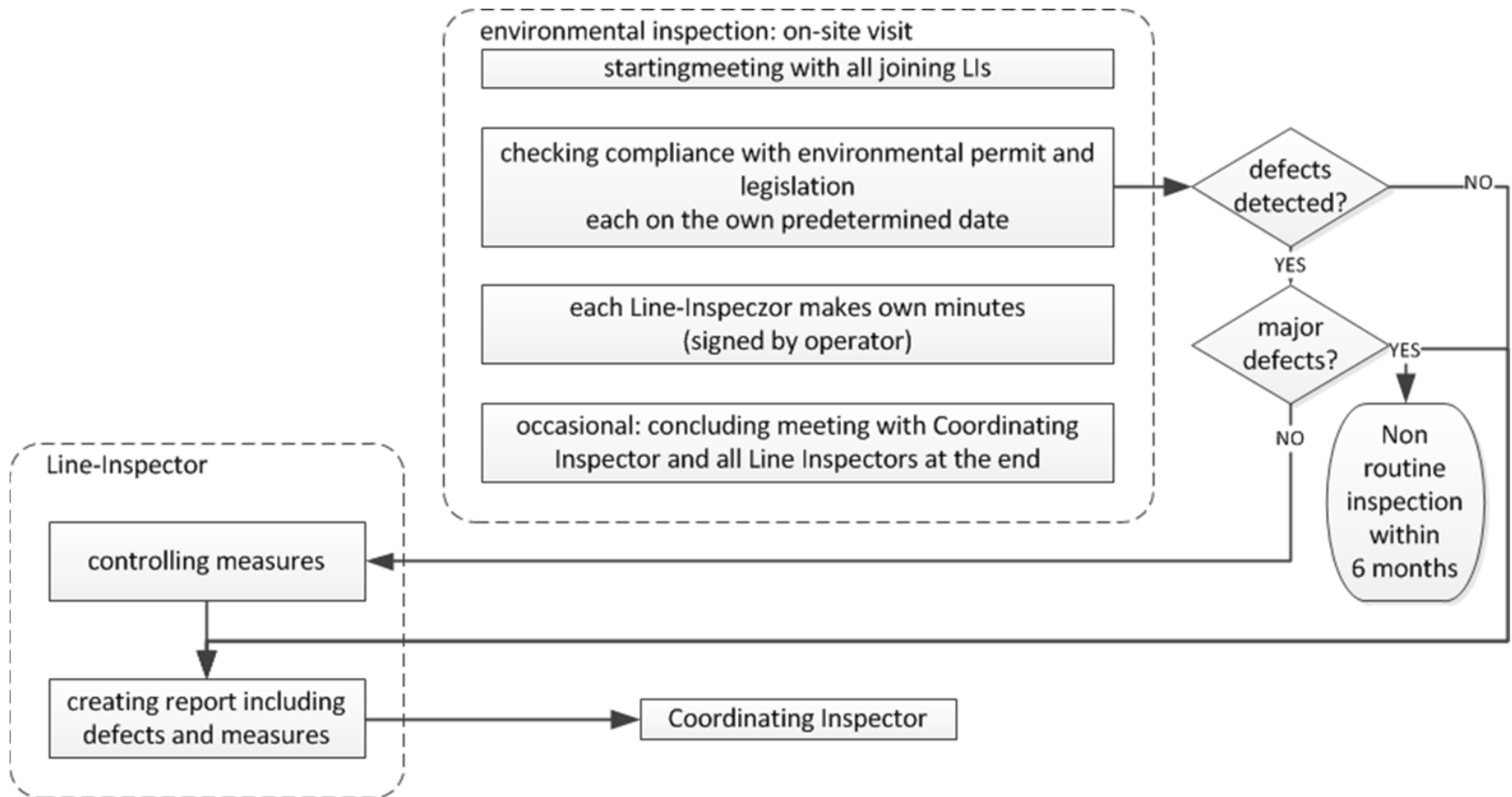


Monitoring – air emissions

No	Source	Pollutants	ELV·mg/m ³
Z1	hot-water-boilers-Stack-2x0,6-kW	NO _x	200
		CO	100
Z2	extraction-ventilation-of-manufacturing-cores-BETA-SET Applicable-31.12.2016.	particulates	20·(200-g/h)
		phenol	20·(100-g/h)
		formaldehyde	20·(100-g/h)
		metilformiat	100·(500-g/h)
Z3	discharge-of-Installation-for-cleaning-drip-mouldings-VP6M	particulates	20
Z4	discharge-of-Installation-for-cleaning-drip-mouldings-VK5-ciklon	particulates	20
Z5	discharge-from-the-high-frequency-furnace--filters-installed	particulates	20
Z6	extraction-ventilation-of-manufacturing-cores-SHELL .	particulates	20
		phenol	20·(100-g/h)
		formaldehyde	20·(100-g/h)
		ammonia	30·(150-g/h)
		hydrogen-cyanide·(HCN)	3·(15-g/h)
		benzene	1·mg/m ³ (2,5-g/h)
Z7	discharge-from-the-send-regeneration	particulates	20
Z8	discharge-from-grinding	particulates	20



Content and scope of coordinated inspection



Monitoring – air emissions

No	Source	Pollutant	ELV mg/m ³
Z1 ✓	hot water boilers Stack 2x0,6 kW	NO _x	200
		CO	100
Z2	extraction ventilation of manufacturing cores BETA SET Applicable 31.12. 2016.	particulates	20 (200 g/h)
		phenol	20 (100 g/h)
		formaldehyde	20 (100 g/h)
		metilphomiat	100 (500 g/h)
Z3 ✓	discharge of Installation for cleaning drip-moldings VP6M	particulates	20
Z4 ✓	discharge of Installation for cleaning drip-moldings VK5-ciklon	particulates	20
Z5 ✓	discharge from the high-frequency furnace – filters installed	particulates	20
Z6	extraction ventilation of manufacturing cores SHELL	particulates	20
		phenol	20 (100 g/h)
		formaldehyde	20 (100 g/h)
		ammonia	30 (150 g/h)
		hydrogen cyanide (HCN)	3 (15 g/h)
		benzene	1 mg/m ³ (2,5 g/h)
Z7 ✓	discharge from the send regeneration	particulates	20
Z8 ✓	discharge from grinding	particulates	20



Monitoring – water and noise emissions

- EP allows:
 - household waste water 111 199 m³/year
 - Treated industrial water 500 m³/year
 - Cooling water 26 200 m³/year

Source	Waste water parameters	ELV
Discharge to the public sewage	temperature °C	40
	sediment ml/1h	10
	nonvolatile lipophilic substances	100
	BKP5	250
	KPKcr	700
	kloridi	1000

- ELV Noise - Housing area 55 dB(day) 40 dB (night), industrial area 80 dB



Waste management

- **Scrap steel – waste management permit recovery**
- **EP conditions:**
 - Separately storage according to waste key numbers
 - Hand over to authorized persons
 - Records on generation and waste flow
 - Report EPR
 - Keeping records for 5 years



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Reporting

- ☐ Air emissions to EPR
- ☐ Water emission to EPR
- ☐ Waste water discharge to HRVATSKE VODE
- ☐ Waste water analysis to HRVATSKE VODE
- ☐ Waste management records to EPR
- ☐ Waste management plan CAENP
- ☐ All reports must be available to inspection
- ☐ Operator should record all complaints and procedure upon complaints



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Reporting – EPR

Registar onečišćavanja okoliša



Prijava

Korisničko ime:

Lozinka:

Prijavi se

Ukoliko nemate korisnički račun prijaviti se možete [OVDJE](#).

Obveznici koji su poslali prijavu imaju mogućnost samostalno provjeriti dodjeljeno korisničko ime [OVDJE](#).



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Reporting - EPR



Prijavljeni korisnik: Inspekcija_Manenica
[Odjava](#)

Glavni izbornik

- Glavni izbornik
- Početna stranica
- Izvješća
- Upiti / Pretraživanja
- Uputstva
- [Pregled podataka](#)
- Sigurnosne postavke
- Promjena lozinke

Registar onečišćavanja okoliša v4.0

 [Prikaži/Sakrij izbornik](#)

Pregled podataka

Pregled podataka za godinu: 2013 ▼

Filter

OIB ▼ = ▼ 95240603723 [Traži](#)

☒ I ☐ ILI ☐ NE

[Sljedeći kriterij](#) [\[Kako koristiti filter?\]](#)

Broj zapisa: 3

	<u>Tvrtka ili obrt</u>	<u>OIB</u>	MBS/MB0	MBPS/JMBG	<u>Naziv</u>	<u>Naselje</u>	<u>Županija</u>	<u>Org. jedinica</u>	<u>Šifra org. jed.</u>	<u>Org. jed. naselje</u>	<u>Org. jed. zup.</u>	<u>Status postrojenja</u>
Označi	Tvrtka	95240603723	070032908	3632636	MIV d.d.	42000 Varaždin	Varaždinska					
Označi	Tvrtka	95240603723	070032908	3632636	MIV d.d.	42000 Varaždin	Varaždinska	RJ Proizvodnja armatura	2	42000 Varaždin	Varaždinska	
Označi	Tvrtka	95240603723	070032908	3632636	MIV d.d.	42000 Varaždin	Varaždinska	RJ Ljevaonica	1	42000 Varaždin	Varaždinska	IPPC,ETS



Reporting (example Foundry)



Detalji o korisniku

Detalji o korisniku:

Tvrtka ili Obrt	Tvrtka	
Matični broj subjekta	070032908	
Matični broj poslovnog subjekta	3632636	
Naziv tvrtke	Metalska industrija Varaždin d.d.	
Adresa	Fabijanska 33 42000 Varaždin Županija: Varaždinska	
Podaci o organizacijskoj jedinici	Naziv: Rj Ljevaonica Šifra: 1	
	Adresa: Fabijanska 33 42000 Varaždin Županija: Varaždinska	
Podaci o osobi koja je unosila podatke	Ime	Davor
	Prezime	Križaić
	Funkcija	Rukovoditelj Odjela poslovne sigurnosti
	Telefon	042290125
	Fax	042330133
	E-mail	davor.krizaic@miv.hr
	Tip unositelja podataka obveznik dostave podataka	

Korisnik je popunio sljedeće obrasce:

Obrazac	Stanje	Verifikacija
<u>PI-2</u>	Verificirano dana 23.5.2014. 12:13:38	
<u>PI-Z-1</u>	Verificirano dana 19.9.2014. 10:05:34	
<u>PI-Z-1</u>	Verificirano dana 19.9.2014. 10:05:37	
<u>PI-Z-1</u>	Verificirano dana 19.9.2014. 10:05:40	
<u>PI-Z-1</u>	Verificirano dana 19.9.2014. 10:05:42	
<u>PI-Z-3</u>	Verificirano dana 19.9.2014. 10:05:49	
<u>PI-Z-3</u>	Verificirano dana 19.9.2014. 10:05:51	
<u>PI-V</u>	Verificirano dana 23.5.2014. 13:16:30	
<u>PL-OPKO PL-OPKO (otpad)</u>	Verificirano dana 23.5.2014. 13:17:35	
<u>PL-PPO PL-PPO (otpad)</u>	Verificirano dana 23.5.2014. 13:21:57	



EPR form PI-Z-3 (example Foundry)

1.7.	Vrsta ispusta:	Filtersko postrojenje iz regeneracije pijeska			
1.8.	Gauss-Krügerove koordinate ispusta:				
		Y:	5602282	X:	5131670
1.9.	Visina ispusta (m):	10			
2.	Podaci o proizvodnom procesu ili procesu obrade otpada				
2.1.	Podaci o procesima pri kojima dolazi do ispuštanja				
	Šifra djelatnosti	Naziv djelatnosti	Postupak		
	04 03 99	Ostalo nespecificirano	Regeneracija pijeska		
2.2.	Podaci o glavnim proizvodima				
2.3.	Podaci o vrsti i potrošnji goriva kod procesa koji uključuju izgaranje goriva				
2.4.	Vrsta uređaja za pročišćavanje otpadnih plinova				
	Šifra uređaja	Naziv uređaja	Stupanj djelovanja uređaja - nazivni (%)	Stupanj djelovanja uređaja - izmjereni (%)	
	107	Vrećasti filtri	0	20.95	
3.	Podaci o rezultatima mjerenja ispuštanja				
	Šifra tvari	Naziv tvari	Rezultat mjerenja (mg/m ³)	Vrsta mjerenja	
	501	Čestice (PM 10)	4.3	2	



EPR form PL-PPO (example Foundry)

PRIJAVNI LIST ZA PROIZVOĐAČA/POSJEDNIKA PRO

List br. 1 od ukupno 3

Ključni broj otpada	Naziv otpada	Osnova određivanja količine: 1 - vaganje, 2 - izračun, 3 - prosudba	Proizvedeno u izvještajnoj godini (t)	Stanje privremenog skladišta na dan (t)	
				1.1.	31.12.
a	b	c	d	e	f

IZVODNOG OTPADA

Izvješće za 2013 godinu

Obrazac PL-PPO

Postupanje s otpadom na mjestu nastanka		Predano						
Količina (t)	Postupak	Skupljaču		Oporabitelj / zbrinjavatelju				Izvoz (t)
		Količina (t)	Naziv i adresa skupljača	na odlaganje postupak D1	na druge postupke D*(t)	na druge postupke R*(t)	Naziv i adresa oporabitelja/ zbrinjavatelja odnosno lokacije oporabe/zbrinjavanja	Naziv i adresa oporabitelja/ zbrinjavatelja odnosno lokacije oporabe/zbrinjavanja
g	h	i	j	k	l	m	n	o



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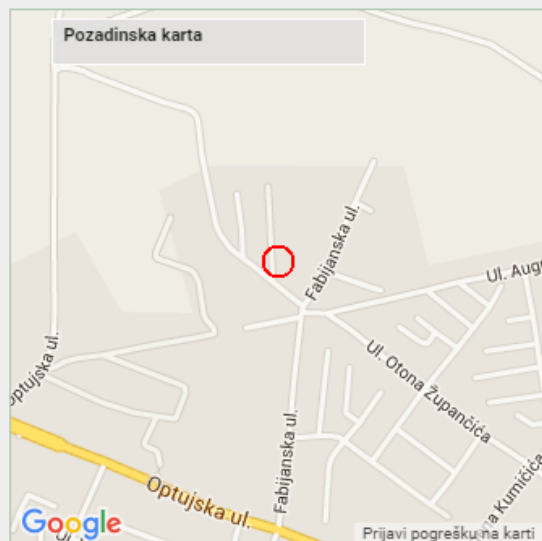
MINISTRY OF ENVIRONMENTAL
AND NATURE PROTECTION

Inspection Follow-up

inspection	Infringements		Inspection control		Misdemeanor procedures				Criminal request
	on minutes	admin. Proc.	Y/N	complet ed	mandatory fine	Misdemeanor proposal			
Y/N	Y/N	guilty	on going						
EPI	Y	Y	Y	Y					
WPI	Y	N							
FI	Y	N							
SI									
EI									
PI									
LI									

Croatian National Portal of the Environmental Pollution Register

Naziv operatera: MIV d.d.
Organizacijska jedinica: RJ Ljevaonica
Adresa: Fabijanska 33, 42000, Varaždin
Država: Croatia
Godina: 2013 (Objavljeno: 17. veljače 2015.)
Propisi: Zakon o potvrđivanju Protokola o registrima ispuštanja i prijenosa onečišćujućih tvari uz Konvenciju o pristupu informacijama, sudjelovanju javnosti u odlučivanju i pristupu pravosuđu u pitanjima okoliša (NN MU 4/2008)



Detalji o organizacijskoj jedinici:

Naziv operatera: MIV d.d.
Geografske koordinate: (46.3204164794628
16.32302633672523
Glavna djelatnost (NACE): Lijevanje željeza
Broj zaposlenih: 331
Radno vrijeme: 2729
Razlog tajnosti: N/A
Oznaka države: HR010247939

Nadležno tijelo:

Županija: Varaždinska



REPUBLIC OF CROATIA

MINISTRY OF ENVIRONMENTAL
AND NATURE PROTECTION

Thank you for attention

BRIGITTE MRVELJ ČEČATKA

Ministry of environmental and nature protection

Directorate for inspection

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JELENA MANENICA

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