

**Management and planning of risk based environmental inspections linked to European environmental legislation (IED and SEVESO) and the RMCEI. Specific reference is made to the application of the IRAM tool in Croatia**

**Ministry for Environmental and Nature Protection**

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## Environmental inspection

What do we want to achieve, how and when?



## A legal base for risk assessment

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Recognizing that there was a wide disparity between inspection systems in the Member States, the European Parliament and the Council adopted several legislation:

- **RMCEI** -Recommendation 2001/331/EC providing for minimum criteria for environmental inspections in the Member States (**non-binding** criteria for the planning)
- Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control) (**IED**) - **binding** criteria for the planning and use of risk appraisals
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (**SEVESO III**) - **binding** criteria for the planning

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## RMCEI and planning

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*Recommendation 2001/331/EC*, providing for minimum criteria for environmental inspections in the Member States, [Article 4](#) :

- Member States should ensure that environmental inspection activities are planned in advance, by having at all times a plan or plans for environmental inspections providing coverage of all the territory of the Member State and of the controlled installations within it.
- Each plan for environmental inspections should as a minimum:
  - prescribe the **programmes** for routine environmental inspections, taking into account **environmental risks**; these **programmes** should include, where appropriate, the frequency of site visits for different types of or specified controlled installations;

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## SEVESO and planning

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**Directive 2012/18/EU**, on the control of major-accident hazards involving dangerous substances (SEVESO) **Article 20** :

- Member States shall ensure that the competent authorities organize a system of inspections.
- Based on the inspection plans referred to in paragraph 3, the competent authority shall regularly draw up **programmes** for routine inspections for all establishments including the frequency of site visits for different types of establishments.

The period between two consecutive site visits shall not exceed one year for upper-tier establishments and three years for lower-tier establishments, unless the competent authority has drawn up an inspection **programme** based on a **systematic appraisal** of major-accident hazards of the establishments concerned.

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## IED and planning

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**Industrial Emission Directive** , **Article 23 (2)** **IED 2010/75/EC**

- Member States shall ensure that all installations are covered by an environmental **inspection plan** at national, regional or local level and shall ensure that this plan is regularly reviewed and, where appropriate, updated
- Each environmental **inspection plan** shall include a general assessment of relevant significant environmental issues; the geographical area covered by the inspection plan; a register of the installations covered by the plan; procedures for drawing up **programmes** for routine environmental inspections; procedures for non-routine environmental inspections pursuant to paragraph; where necessary, provisions on the cooperation between different inspection authorities.

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## IED and planning

### *Industrial Emission Directive, Article 23 (4) IED 2010/75/EC*

- Based on the inspection plans, the competent authority shall regularly draw up **programmes** for routine environmental inspections, **including the frequency of site visits for different types of installations.**
- The period between two site visits shall be based on a **systematic appraisal of the environmental risks** of the installations concerned and shall not exceed 1 year for installations posing the highest risks and 3 years for installations posing the lowest risks.



## Inspection plan and programme

### Inspection plan:

- It is more wide document comparing to a programme.  
(IED Article 23(2) and 23(3))



### Programme:

- It is part of the inspection plan and tells the inspector when, where and what he or she should be doing. In practice this is often a table with the names of the installations, the name(s) of the inspector(s), the type of inspection, the date or time frame (week or month) the type and additional information needed to execute inspections. It is a kind of schedule for inspector work.

## Environmental Protection Inspection in Croatia

- Ministry for Environmental and Nature Protection (MENP) – central authority for implementing environmental management and protection policy in Croatia (coordinating role)



- 75 inspectors are operating through the Central Office in Zagreb and 20 Offices organized in 3 Branch Units (Zagreb, Šibenik and Osijek)
- EPI competences: control of EP conditions, EIA, air emissions and air quality, waste management, environmental accidents, sea water quality, TFS, SEVESO, ODS, light protection, remediation of environmental damage...

4.5.2016.

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## Legal obligation for risk assesment in Croatian legislation

- IED and SEVESO Directive is transposed in Croatia Environmental Protection Act (EPA) (Official Gazette 80/13, 78/15), Regulation on environmental permit (OG No. 8/14) and Regulation on the prevention of major accidents involving dangerous substances (OG No. 44/14)
- obligation for risk assesment of **178 IED** installation in Croatia
- no risk assesment for SEVESO installations (inspection controls of **24 upper tier** installation every year and every 3 years for lower tier installations regarding obligation in Regulation on the prevention of major accidents involving dangerous substances (OG No. 44/14)

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## Cooperation between inspection services

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- For inspection of IED and SEVESO industrial installation in Croatia we perform Coordinated inspection controls since 2007 according to *Agreement on cooperation between inspection services*
- Environmental inspection (coordinators)
- Water protection inspection
- Sanitary inspection
- Firefighting inspection
- Pressure equipment inspection
- Agricultural inspection
- Veterinary inspection
- Mining inspection

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## Why risk assesment?

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What do we regard as most important to inspect?



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## Data for risk assesment (input)

- Data base (register ) of activities and installations (numbers and geographical distribution of installations)
- Legal obligations to inspect
- Resources (human and financial resources)
- Data from previous inspections (date of lasts visit, emissions, compliance with permit, etc.)
- Information about companies and installations that fall under the competence of the authority



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## Integrated Risk Assesment Method (IRAM)

- In 2014. Croatia started implementation of **I**ntegrated **R**isk **A**ssesment **M**ethod (IRAM) for prioritization of inspection controls of IED instalation ( legal obligation) and waste management operators (no legal obligation for risk assesment)
- In 2016. first inspection programme for IED instalation partially based on **IRAM** method



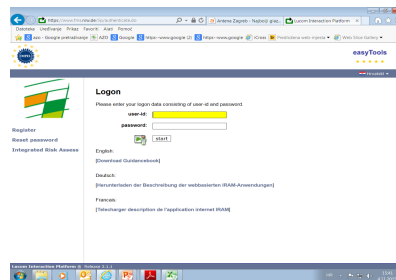
The image shows a screenshot of a Microsoft Excel spreadsheet. A large, diagonal watermark with the text 'INSPECTION PROGRAMME' is overlaid across the center of the spreadsheet. The spreadsheet contains multiple columns and rows of data, including dates and numerical values, organized in a structured format typical of a database or inventory list.

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## Integrated Risk Assessment Method (IRAM)

IRAM programme distinguishes:

- **Administrator** –highest level of authorization
- **Coordinator** – decides on inspection task, criteria, and steering terms and factors
- **Inspector** –does the risk assessment



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## Integrated Risk Assessment Method (IRAM)

### Important steps for implementation of IRAM:

- Setting the national coordinator
- Registration in the system (coordinator and inspectors)
- **Development of Risk Assessment Forms**
- Training of inspectors
- Evaluation

### Recommendation:

- Introduction in Risk Assessment
- Integrated Risk Assessment Method (IRAM)
- Manual of the online IRAM tool
- Examples of impact and probability criteria



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## Integrated Risk Assessment Method (IRAM)

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### What are risk criteria?

Risk criteria are criteria for evaluation actual and potential impacts of the installation on environment.

We differentiate between:

- Impact Criteria (IC) and
- Operator Performance Criteria (OPC)

#### IED Obligatory Risk Criteria

- levels and types of emissions(water, air, soil, noise,...)
- the sensitivity of the local environment
- the risk of accidents
- the record of compliance with permit conditions
- the participation of the operator in the Union eco-management and audit scheme (EMAS)



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### Developing risk assesment form for IED instalations

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- Croatia used experience of our neighboring country-Slovenia trough ECRAN and IMPEL meetings
- Folowing Slovenian example, Croatia developed 7 IC and 3 OPC

Impact Criteria (IC)	Operator performance criteria (OPC)
Releases to air	Compliance
Releases to water	Attitude of the operator
Off-site transfer of waste	Environmental management system
Sensitivity of the local environment	
Risk of accidents	
Noise	
Impacts on human health or the environment	

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## Developing risk assesment form for IED instalations

### • Impact Criteria (IC)

#### Realises to Air

Opis	Vrijednost
Postrojenje nema nepokretnih izvora emisija oneiscujucih tvari u zrak	0
Postrojenje ispusta oneiscujuce tvari u zrak iz nepokretnog izvora, ali nisu prekoracone GVE	1
Postrojenje ispusta oneiscujuce tvari u zrak iz nepokretnog izvora - prekoracon je 1 parametar oneiscujuce tvari u iznosu do 10% GVE	2
Postrojenje ispusta oneiscujuce tvari u zrak iz nepokretnog izvora - prekoracona su 2 ili vise parametara oneiscujucih tvari u iznosu do 10% GVE ili prekoracon je 1 ili vise parametara oneiscujucih tvari u iznosu vecem od 10% GVE	3

#### Realises to Water

Opis	Vrijednost
Postrojenje ispušta onečišćujuće tvari u vode, ali nisu prekoračene GVE	1
Postrojenje ispusta oneiscujuce tvari u vode - prekoracon je 1 parametar oneiscujuce tvari u iznosu do 10% GVE	2
Postrojenje ispusta oneiscujuce tvari u vode - prekoracona su 2 ili vise parametara oneiscujucih tvari u iznosu do 10% GVE ili prekoracon je 1 ili vise parametara oneiscujucih tvari u iznosu vecem od 10% GVE	3

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## Developing risk assesment form for IED instalations

### • Off-site transfer of waste

Opis	Vrijednost
Na lokaciji postrojenja nastaje manje od 200 kg/god. opasnog otpada ili manje od 2 t/god. neopasnog otpada	0
Na lokaciji postrojenja nastaje manje od 200 kg/god. opasnog otpada ili 2 do 150 tona neopasnog otpada godisnje	1
Na lokaciji postrojenja nastaje vise od 200 kg/god. opasnog otpada ili vise od 150 tona neopasnog otpada godisnje	2
Na lokaciji se provodi gospodarenje otpadom (skupljanje, obrada ili uporaba otpada)	3

### • Sensitivity of the local environment

Opis	Vrijednost
Nema osjetljivog podrucja (skole, vrtica, bolnice, doma za starije osobe, vodocrpilista, zona domino efekta) u okruzenju ili na udaljenosti vecoj od 10 km	0
Osjetljivo podrucje(skola, vrtic, bolnica, dom za starije osobe, vodocrpiliste, zona domino efekta) se nalazi na udaljenosti vecoj od 10 km od lokacije operatera	1
Osjetljivo podrucje(skola, vrtic, bolnica, dom za starije osobe, vodocrpiliste, zona domino efekta) se nalazi na udaljenosti vecoj od 5 km od lokacije operatera	2
Osjetljivo podrucje(skola, vrtic, bolnica, dom za starije osobe, vodocrpiliste, zona domino efekta) se nalazi na udaljenosti vecoj od 1,5 km od lokacije operatera	3
Osjetljivo podrucje (skola, vrtic, bolnica, dom za starije osobe, vodocrpiliste, zona domino efekta) se nalazi na udaljenosti vecoj od 100 m od lokacije operatera	4
Postrojenje se nalazi na osjetljivom podrucju ili u neposrednoj blizini osjetljivog podrucja (skola, vrtic, bolnica, dom za starije osobe, vodocrpiliste, zona domino efekta)	5

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## Developing risk assesment form for IED instalations

- Risk of accidents**

Opis	Vrijednost
<a href="#">Na lokaciji postrojenja nema opasnih tvari propisanim Uredbom o sprecavanju velikih nesreca</a>	0
<a href="#">Postrojenje spada u kategoriju ispod granicnih vrijednosti iz popisa Priloga I. A. dijelova 1.i 2., stupca 2. odnosno Priloga I.B. stupca 2 (ispod "nizeg razreda postrojenja") prema Uredbi o sprecavanju velikih nesreca</a>	1
<a href="#">Postrojenje spada u "nizi razred postrojenja" prema Uredbi o sprecavanju velikih nesreca</a>	2
<a href="#">Postrojenje spada u "visi razred postrojenja" prema Uredbi o sprecavanju velikih nesreca-obveza izrade izvjesca o sigurnosti</a>	3

- Noise**

Opis	Vrijednost
<a href="#">Na lokaciji postrojenja nema izvora buke</a>	0
<a href="#">Postrojenje posjeduje određene izvore buke, ali izmjerene vrijednosti ne prelaze dopustene razine buke</a>	1
<a href="#">Postrojenje posjeduje određene izvore buke, te izmjerene vrijednosti prelaze dopustene razine buke</a>	2

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## Developing risk assesment form for IED instalations

- Impacts on human health or environment (complaints , accidents and incidents concerning the human health or environment)**

Opis	Vrijednost
<a href="#">U posljednje 3 godine nije zaprimljena niti jedna pritužba građana te se nije dogodio niti jedan akcident/incident</a>	0
<a href="#">U posljednje 3 godine zabilježena je jedna manje značajna pritužba ili se dogodio jedan manji akcident/incident u okolišu</a>	1
<a href="#">U posljednje 3 godine zabilježene su dvije značajne pritužbe ili se dogodio jedan značajan akcident/incident u okolišu</a>	2
<a href="#">U posljednje 3 godine zabilježene su više od dvije značajne pritužbe ili se dogodio više od jedan značajan akcident/incident u okolišu</a>	3

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## Developing risk assesment form for IED instalations

### Operator performance criteria (OPC)

- Compliance with Environmental Permit

Opis	Vrijednost
<a href="#">Nije utvrđena nesukladnost s okolišnom dozvolom</a>	-1
<a href="#">Utvrđena je jedna nesukladnost s okolišnom dozvolom</a>	0
<a href="#">Utvrđeno je više od jedne nesukladnosti s okolišnom dozvolom</a>	1

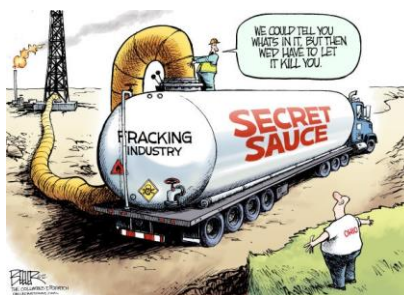


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## Developing risk assesment form for IED instalations

### Attitude of the operator

Opis	Vrijednost
<a href="#">Operator postrojenja odmah reagira i uklanja sve nepravilnosti koje se pojavljuju tijekom rada ili tijekom provođenja inspekcijskog nadzora</a>	-1
<a href="#">Operator postrojenja reagira i uklanja utvrđene nepravilnosti tek po zaprimanju pismenog upozorenja (upozorenje dano na zapisnik, rješenje kojim se naređuje poduzimanje određenih mjera)</a>	0
<a href="#">Operator postrojenja ne uklanja nepravilnosti nakon zaprimanja pismenog upozorenja ( rješenje , naredene mjere na zapisnik)</a>	1



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## Developing risk assesment form for IED instalations

- Environmental management system

Opis	Vrijednost
<a href="#">Postrojenje ima primijenjen sustav EMAS te postupa u skladu s primijenjenim sustavom</a>	-1
<a href="#">Postrojenje ima primijenjen sustav ISO 14001 ili vlastiti sustav upravljanja okolisem te postupa u skladu s istim</a>	0
<a href="#">Postrojenje nema sustav upravljanja okolisem te ne postupa u skladu sa zahtjevima okolisnih sustava</a>	1



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Register  
Reset password  
Integrated Risk Assess

### Logon

Please enter your logon data consisting of user-id and password.

user-id:

password:

 start

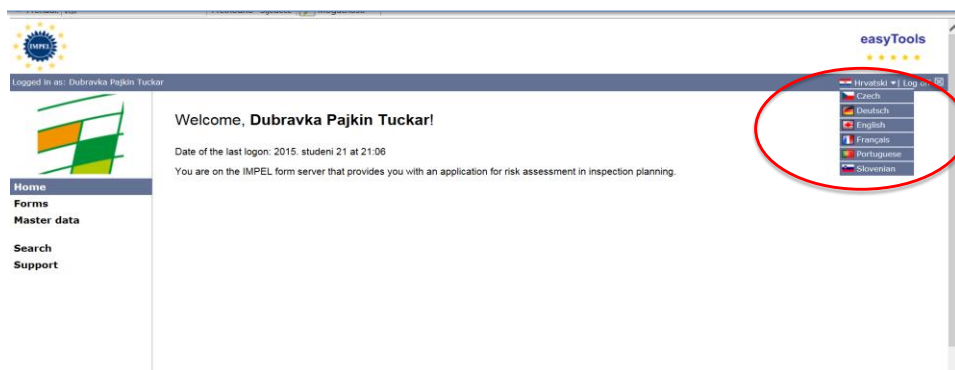
English:  
[Download Guidancebook]

Deutsch:  
[Herunterladen der Beschreibung der webbasierten IRAM-Anwendungen]

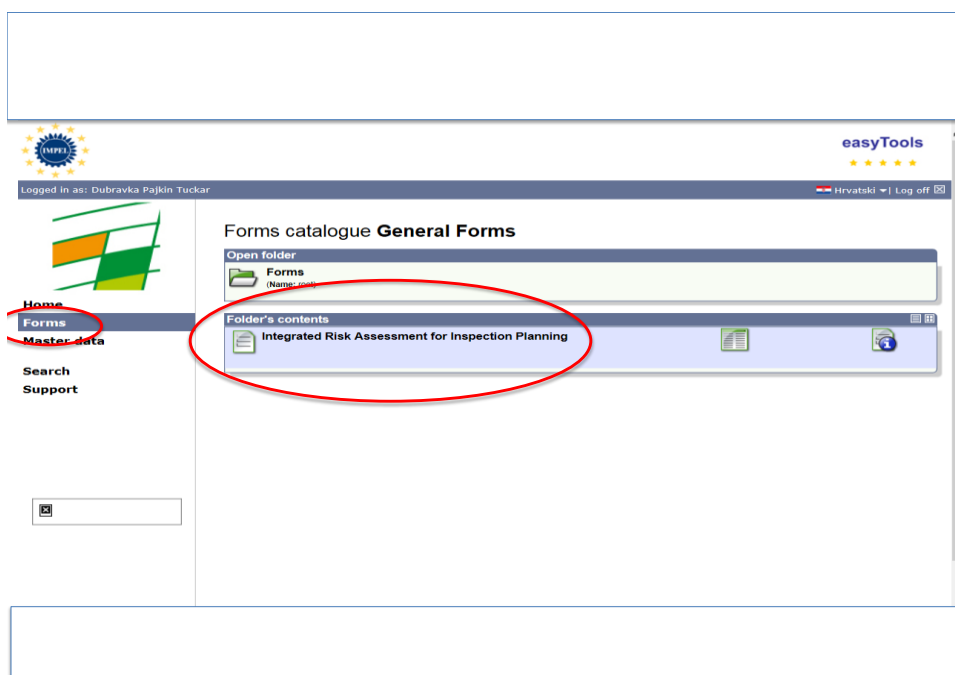
Francais:  
[Telecharger description de l'application internet IRAM]

Lucrum Interaction Platform © Release 3.1.1

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easyTools

Developer license

Status: in use

Change status to completed

Procjenu izradio: Dubravka Pakin Tuckar

Subjekt nadzora: ID

inspekcijskog nadzora: Nadzor IED postrojenja

Datum ocjenjivanja: Nadzor ovlaštenika koji gospodare otpadom

Integrirana metoda procjene: ☒ Metoda srednje linearne vrijednosti

Podaci o adresi

Ulica:

broj: Lokacija:

Napomene

### IMPACT CRITERIA (IC)

easyTools

	Najveći rezultat	Ocjena	Promjena ocjene (težina)
Emisije onečišćujućih tvari u zrak	3	0	0
Nastajanje otpada	3	0	0
Rizik od nastanka velike nesreće/skladištenje opasne	3	0	0
Emisije onečišćujućih tvari u vode	3	0	0
Emisija buke	2	0	0
Utjecaj na ljudsko zdravlje i okoliš	3	0	0
Osetljivost okoliša u neposrednoj blizini operatera	5	0	0

Minimalni broj najviših ocjena: 2

Najniža kategorija rizika: 1

Najviša kategorija rizika: 3

Unos ocjena o ponašanju operatera

Kriterij usklađenosti subjekta

	Težina kriterija	Rezultat
Sustav upravljanja okolišem	1	0
Reakcija operatera na utvrđene nepravilnosti	1	0
Usklađenost operatera s okolišnom dozvolom	1	0

Srednja vrijednost ocjena o ponašanju operatera

### OPERATOR PERFORMANCE CRITERIA (OPC)

easyTools

Risk ranking number: 21111100

Najviši ocjena rizika: 2

Broj najviših ocjena rizika: 1

Kategorija rizika: 1

Inspeksijski nadzori s najviše uložnog truda (100%): 25

Ukupna složenost nadzora: 7

Inspeksijski nadzori s najviše uložnog truda (postotak): 28 %

Kategorija (vrsta) inspeksijskog nadzora: 3

Učestalost inspeksijskog nadzora: 36

Rok najkasnije provedbe sljedećeg inspeksijskog nadzora: 10.09.2017

Zbroj profila rizika: 7

Srednja vrijednost profila rizika: 1,0

Napomene:

## Integrated Risk Assessment Method results

### Results of evaluation (2014.-2015.)

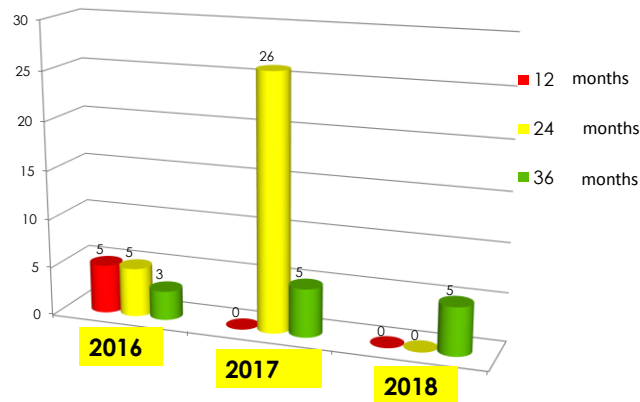
- 44 environmental inspectors participated in evaluation in IRAM
- 185 installations was evaluated after inspection controls (61 IED installations and 124 WMI-waste management installations (hazardous waste, recycling))

185 installations/ total	IED 61	%	WMI 124	%
HIGH RISK/12m	15	24,6%	45	36,29%
MEDIUM RISK/24m	33	54,1%	38	30,64%
LOW RISK/36m	13	21,3%	41	33,06%



## Frequency of site visits for IED installations

Frequency of site visits for IED installations in 2016., 2017., 2018.  
regarding IRAM evaluation



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## Inspection programme for coordinated inspection controls in 2016.

Inspection **programme** for coordinated inspection controls in 2016.  
(88 installations in total)

- 13 IED installations (IRAM risk assesment)
- 43 IED installations that have not been inspected yet and installations with oldest date of last inspection.
- 24 upper tier SEVESO installations (obligation regarding Regulation on the prevention of major accidents involving dangerous substances, OG No. 44/14)
- 8 lower tier SEVESO installations (obligation regarding Regulation on the prevention of major accidents involving dangerous substances,OG No. 44/14)

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## PROGRAMME FOR COORDINATED INSPECTION CONTROLS IN 2016.

L4									
Font Poravnanje Broj Stilovi Četije Uređivanje									
ID za IRAM	Name of operator	Address	County	Activity	Last inspection date	Frequency of site visit (month)	Name of COORDINATOR in last site visit	Name of COORDINATOR in 2016.	
83.	PK TVORNICA ULJA ČEPIN d.o.o.	Ulica grada Vukovara 18	Čepin	Osječko - baranjska	6.4.b	27.06.2014.		ŠTIMAC	ŠTIMAC
21.	METALSKA INDUSTRIJA VARAŽDIN d.d.	Varaždin, Fabijanska ulica 33	Varaždin, Fabijanska ulica 33	Varaždinska	2.4.	21.3.2014.		KLUČEK	KLUČEK
22.	PLAMEN d.o.o. Požega	Njemačka 36	Požega	Požbeško - slavonska	2.4.	16.05.2014.		SERTIČ	MATUJEVIĆ
154.	Spis d.o.o. Umag	Ungarska 40a	Umag	Istarska	6.7.	15.05.2014.	24	BOŽIČEVIĆ	KRSTELJ
85.	SLADORANA d.d. Županja	Šerbanova ul.	Županja	Vukovarsko-srijemska		12.09.2014.		SERTIČ	MILETIĆ
30.	OV d.o.o. tvornica vijaka, Podružnica Knin	IV Gardijske Brigade 44	Knin	Šibensko - kninska	2.6.	25.2.2014.		KRNIĆ	KRNIĆ
27.	UPOVIKA d.o.o. Popovača	Lipovečka 22	Popovača	Štaško - moslavačka	2.5.8	28.11.2014.		TADIĆ	TADIĆ
84.	Yvornica Sečera Osijek d.d.		Osijek, Frankopanska 99	Osječko - baranjska	6.4.b	27.10.2014.		SERTIČ	MANENICA
29.	DALEKOVOD-Proizvodnja d.o.o.	Trnolička bb	Dugo Selo	Zagrebačka	2.6.	11.09.2014.	24	JELIĆ	JELIĆ
63.	UNDE PUN d.o.o. Mahližno	Mahližno bb	Mahližno	Karlovčka	4.1.(a)	22.09.2014.		ŠIMUNIĆ	ŠIMUNIĆ
176.	Hartman d.o.o. Koprivnica	Dravska	Koprivnica	Koprivničko-križevačka	1.1.	20.10.2014.		RUČAN	RAČKI
69.	SOLINA grupa, UTP d.o.o. Pula	Svetog Polikarpa 4	Pula	Istarska	4.1.a	20.10.2014.		KRSTELJ	BOŽIČEVIĆ
168.	AGROKOR ENERGIJA d.o.o., bioplinisko postrojenje	Mitrovač	Mitrovač	Osječko - baranjska	5.3. (b)				PUBIĆ

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## PROGRAMME FOR COORDINATED INSPECTION CONTROLS IN APRIL 2016.

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Naziv operativca	Adresa	Stupanj nadležnosti	IZO	Vod	IZP	San	polj	ai	opt	vet	rud	IZO	par
P. F. C. BUJEZ d.o.o. Isačica Buzet	Most 2, Buzet	04-08.04.	BOŠČIČIĆ 05.53.6014 marijana.bosicic vc@moip.hr	Vlado Rigić vlado.rigic1@ri.hr 099 233 1 443	PJ ISTARSKA Mirena Karićani 052.532.014 mcaricani@moip.hr	Iva Kotalčić Hadžić 0998020081		GRUBIŠIĆ boris.grubisic@moip.hr 099 2663025	BRČIĆ bric.brc@moip.hr 099 2663 027				Viljam Đur viljam.dur@moip.hr 053 356 1 099 3118
JANAF d.o.o., Termin Žitnjak	Slavonska avenija 64, Zagreb	04-08.04.	MILČIČ 013717180 anita.milic@moip.hr	Srećanka Foretić 013717180 foretic@moip.hr	Kedžo Belaković Davor 487 582 099 8153027	Zvonimir Kramarić 099 8020 440 zvonimir.kramaric@moip.hr		PAČOVAN marijana.pacovan@moip.hr 099 267 0868,	BAŠIČIĆ ivan.basacic@moip.hr 099 2646 420				Krešimir K kresimir.k 099 26455
KOKA farma 9. Kućan Goričan	Goriči Kućan, Varaždin	11-15.04.	GRUŠEN 013717227 milenka.gruden@moip.hr	NEVEN MILAKAR vodopravni inženjer 042 372 285 098 607 613	PJ VARAŽDINSKA Damen Brezovac 042 372 285 dbrezovac@moip.hr	Boro Župić 099/815 6187 buzupic@moip.hr	HANŽIĆ zvonka.hanzic@moip.hr 099 9174 165,	ROĐIČIĆ petar.rodic@moip.hr 099 2663 243	Nataša Lončarić 099/8156 337 nataasa.loncarric@moip.hr	Vera Matić 099/815 6186 vera.matic@moip.hr		Danko Kar danko.kar@moip.hr 042 653 3 099 2627	
INA RAFNERIJA ISKAK d.o.o., Iskak	A. Kovačića 1, Iskak d.o.o., Iskak	11-15.04.	TADIĆ 044541992 ljetica.tadic@moip.hr	SLAVEN ETIHAČ 099 32 99 448	PJ ISKAKO-MOLIVAČKA Nada Bulut 044 560 453 skrtin2@moip.hr	Nada Bulut 099/8200248 Nada.Bulut@moip.hr	HANŽIĆ zvonka.hanzic@moip.hr 099 9174 165,	BAŠIČIĆ ivan.basacic@moip.hr 099 2646 420				Krešimir K kresimir.k 099 26455	
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## Future planned actions



### 2016

- coordinated inspection controls of all IED and SEVESO installation to collect information and assess the risk in IRAM easy tools

### 2017

- adequate enforcement actions on all High Risk sites (HR) with low level of compliance sites, especially the ones with high risk classification (HR) in order to reduce the non compliances
- inspection of all high risk sites (HR)

### 2018

- follow-up inspections in order to check whether the measures were implemented and if compliance has improved (in case of HR and low compliance sites) and inspection of the MR

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# Thank you for attention

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