

# Supporting IRAM Implementation



## Risk assessment of an IED installation (results evaluation)



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## IC1: Type and kind of installation

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The "Olt-Aluminium" Company is producing aluminium from ore, concentrates or secondary raw materials by metallurgical and electrolytic processes. The installations operated by this company fall under Annex 1 of IED (2.5.a & b). Because the electrolytic processes are intensive electrical consumers the company decided to build up a coal LCP power plant with total rated thermal input of 300 MW for which an environmental impact assessment is necessary.

Score	Definition
0	Non-IPPC installation without need of an environmental permit
1	Non-IPPC installation without need of an environmental permit but object of environmental regulations
2	Non-IPPC installation that needs an environmental permit
3	IPPC installation; Non-IPPC installation as relevant part of a lower tier Seveso establishment
4	IPPC installation as relevant part of an upper tier Seveso establishment or with obligatory environmental impact assessment
5	IPPC installation as relevant part of an upper tier Seveso establishment and with obligatory environmental impact assessment



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## IC2: Impacts on human health or the environment

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As you examined these 2 complaints you noticed that they are relevant

Score	Definition
0	No environmental complaints, environmental accidents or incidents in the last 5 years
1	At least one minor environmental complaint, minor environmental accident or incident in the last 5 years
2	More than two minor environmental complaints, minor environmental accidents or incidents in the last 5 years
3	At least one relevant environmental complaint, relevant environmental accident or incident in the last 5 years
4	One important or more than two relevant environmental complaints, environmental accidents or incidents in the last 5 years
5	One important or more than two relevant environmental complaints, environmental accidents or incidents in the last 2 years



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## IC3: Releases to air

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The company has a potential impact on environment and human health. The sum of the releases to air - normalised to the thresholds\*) of Annex 2 of EPRTTR Regulation, column 1a – is 11, while the releases to water or off-site transports in waste water - normalised

Score	Definition
0	Activity <b>is not mentioned</b> in Annex 1 of the EPRTTR Regulation and there are <b>no releases</b> to air
1	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation but <b>no threshold</b> of Annex 2, column 1a, is exceeded and there are <b>no other releases</b> to air
2	Activity <b>is or is not mentioned</b> in Annex 1 of the EPRTTR Regulation, <b>no threshold</b> of Annex 2, column 1a, is exceeded but there are <b>other releases</b> to air
3	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to air - normalised to the thresholds* of Annex 2, column 1a - is <b>&gt;1</b>
4	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to air - normalised to the thresholds* of Annex 2, column 1a - is <b>&gt;5</b>
5	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to air - normalised to the thresholds* of Annex 2, column 1a - is <b>&gt;10</b>

\* Ratio of release to threshold value



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## IC4: Releases to water / off-site transport in waste water

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1a – is 11, while the releases to water or off-site transports in waste water - normalised to the thresholds\*) of Annex 2, column 1b - is 5.5 and the sum of the releases to land -

Score	Definition
0	Activity <b>is not mentioned</b> in Annex 1 of the EPRTTR Regulation and there are <b>no releases</b> to water or off-site transports in waste water
1	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation but <b>no threshold</b> of Annex 2, column 1b, is exceeded and there are <b>no other releases</b> to water or off-site transports in waste water
2	Activity <b>is or is not mentioned</b> in Annex 1 of the EPRTTR Regulation, <b>no threshold</b> of Annex 2, column 1b, is exceeded but there are <b>other releases</b> to water or off-site transports in waste water
3	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to water or off-site transports in waste water - normalised to the thresholds* of Annex 2, column 1b <b>is &gt;1</b>
4	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to water or off-site transports in waste water - normalised to the thresholds* of Annex 2, column 1b <b>is &gt;5</b>
5	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to water or off-site transports in waste water - normalised to the thresholds* of Annex 2, column 1b <b>is &gt;10</b>

\* Ratio of release or off-site transport to threshold value

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## IC5: Releases to land

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to the thresholds\*) of Annex 2, column 1b - is 5.5 and the sum of the releases to land - normalised to the thresholds\*) of Annex 2, column 1c - is 1.5. The noise emissions are

Score	Definition
0	Activity <b>is not mentioned</b> in Annex 1 of the EPRTTR Regulation and there are <b>no releases</b> to land
1	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation but <b>no threshold</b> of Annex 2, column 1c, is exceeded and there are <b>no other releases</b> to land
2	Activity <b>is or is not mentioned</b> in Annex 1 of the EPRTTR Regulation, <b>no threshold</b> of Annex 2, column 1c, is exceeded but there are <b>other releases</b> to land
3	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to land - normalised to the thresholds* of Annex 2, column 1c - <b>is &gt;1</b>
4	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to land - normalised to the thresholds* of Annex 2, column 1c - <b>is &gt;5</b>
5	Activity <b>is mentioned</b> in Annex 1 of the EPRTTR Regulation and <b>the sum</b> of the releases to land - normalised to the thresholds* of Annex 2, column 1c - <b>is &gt;10</b>

\* Ratio of release to threshold value

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## IC6: Off-site transfer of waste

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imported from China and is producing 9,000 t hazardous waste from which 5,500 t are transferred to Bulgaria.

Score	Definition
0	No activity specific waste
1	Non-hazardous waste <2,000 t/y or hazardous waste <2 t/y
2	Non-hazardous waste >2,000 t/y or hazardous waste >2 t/y
3	Non-hazardous waste >20,000 t/y or hazardous waste >5,000 t/y
4	Non-hazardous waste >50,000 t/y or hazardous waste >10,000 t/y
5	Non-hazardous waste >100,000 t/y or hazardous waste >20,000 t/y
In case of transfrontier shipment of waste into foreign countries (at risk) the limits for scoring are lower:	
3	TFS: non hazardous waste >1,000 t/y or hazardous waste >100 t/y
4	TFS: non hazardous waste >5,000 t/y or hazardous waste >500 t/y
5	TFS: non hazardous waste >20,000 t/y or hazardous waste >5,000 t/y

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## IC7: Input of waste

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Yearly, the company is using 85,000 t of non hazardous waste from which 6,500 t are imported from China and is producing 9,000 t hazardous waste from which 5,500 t are

Score	Definition
0	No waste input
1	Non-hazardous waste <2,000 t/y and hazardous waste <2 t/y
2	Non-hazardous waste >2,000 t/y or hazardous waste >2 t/y
3	Non-hazardous waste >50,000 t/y or hazardous waste >1,000 t/y
4	Non-hazardous waste >100,000 t/y or hazardous waste >5,000 t/y
5	Non-hazardous waste >250,000 t/y or hazardous waste >10,000 t/y
In case of transfrontier shipment of hazardous waste from foreign countries (at risk) the limits for scoring are lower:	
3	TFI: hazardous waste >500 t/y
4	TFI: hazardous waste >1,000 t/y
5	TFI: hazardous waste >5,000 t/y

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## IC8: Quality of the local environment

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The quality of the environment in the area in which the company is located is hard to keep. The limit values for air quality for NO<sub>2</sub> and PM<sub>10</sub> are overcome. It was demonstrated that the contribution of the installation to the violation of these limits is more than 3%.

Score	Definition
0	There is no contribution by the installation and therefore no influence on the environmental quality
2	There is contribution by the installation but the environmental quality is better than the ambient standard
3	There is contribution by the installation and the environmental quality is kept at the ambient standard
4	There is contribution by the installation to the violation of environmental quality standards by less than 3%
5	There is contribution by the installation to the violation of environmental quality standards by more than 3%



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## IC9: Sensitivity of the local environment

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competent authority has registered 2 complaints from citizens that live in the residential area located at 1 km distance from company's site. Within this area, beside residential buildings can be find a hospital, a school and a kindergarten.

Score	Definition
0	No sensitive areas in the surroundings or distance is >10 km
1	Sensitive areas outside the influence sphere of emissions or distance is <10 km
2	Sensitive areas within the influence sphere of emissions or distance is <5 km
3	Sensitive areas within the influence sphere of mayor accidents or distance is <1,5 km
4	Sensitive areas close to facility premises, the distance is <100 m
5	Facility lies within a sensitive area or in the direct vicinity



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# IC10: Risk of accidents

Also, the company is using dangerous substances in its activities. The sum of dangerous substances covered by Annex I of the Seveso II Directive - normalised to the thresholds of Column 3\*) - is 5.

Score	Definition
0	No (categories of) dangerous substances covered by Annex I of the Seveso-II Directive
1	Sum of (categories of) dangerous substances covered by Annex I of the Seveso-II Directive - normalised to the thresholds of Column 2*) - is >1
2	Sum of (categories of) dangerous substances covered by Annex I of the Seveso-II Directive - normalised to the thresholds of Column 2*) - is >2
3	Sum of (categories of) dangerous substances covered by Annex I of the Seveso-II Directive - normalised to the thresholds of Column 2*) - is >4 or - normalised to the thresholds of Column 3 - is >0.75
4	Sum of (categories of) dangerous substances covered by Annex I of the Seveso-II Directive - normalised to the thresholds of Column 3*) - is >1
5	Sum of (categories of) dangerous substances covered by Annex I of the Seveso-II Directive - normalised to the thresholds of Column 2*) - is >50
*) Ratio of managed amount to threshold value	



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# IC11: Noise

normalised to the thresholds\*) of Annex 2, column 1c - is 1.5. The noise emissions are more than 4 dB(A) below limit value.

Score	Definition
0	No relevant emissions
1	Noise emissions are more than 5 dB(A) below limit value
2	Noise emissions are more than 1 to 5 dB(A) below limit value
3	Noise emissions are plus or minus 1 dB(A) around limit value
4	Noise emissions exceed limit value by 1 to 5 dB(A)
5	Noise emissions exceed limit value by more than 5 dB(A)*)
*) This can't only be handled by routine inspection, action is needed	



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## OPC1: Compliance

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As you examined these 2 complaints you noticed that they are relevant and 2 important cases of non-compliance with the permit conditions have been committed. Besides the

Score	Definition
-1	No relevant non compliances of the installation with the permit conditions or violation of the operator duties
0	One relevant non compliance of the installation with the permit conditions or violation of the operator duties
1	More than one relevant non compliance or one important non compliance with the permit conditions or violation of the operator duties



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## OPC2: Attitude of the operator

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conditions. Even the operator seemed to cooperate with the competent authority, after some time you heard that nothing has happened and you sent a warning letter to put some pressure on the operator. Afterwards the operator met his obligations.

Score	Definition
-1	Operator reacts immediately after recognising a condition of relevant non-compliance
0	Operator reacts after receiving a warning letter form the competent authority
1	Operator reacts only after repeated warning letters or after a formal administrative decree of the competent authority



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# OPC3: Environmental management system

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For the same purpose the company has implemented an environmental management system according to EMAS Regulation. Nevertheless, since three years ago the

Score	Definition
-1	Site is registered under EMAS and the operator is working successfully with this environmental management system
0	Site is not registered under EMAS but the operator is working successfully with an accepted environmental management system
1	Site is not registered under EMAS and the operator is not working with an accepted environmental management system



# Risk ranking number

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55544433332

Did you get this number?  
..... then you are the  
best !

