



Risk assessment of an IED installation with the IRAM web app

Aluminium factory producing aluminium

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.

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

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 NO₂ and PM₁₀ are overcome. It was demonstrated that the contribution of the installation to the violation of these limits is more than 3%.

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 transferred to Bulgaria.

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.



The management of company is willing to improve its environmental issues and to become an “environmental friendly” company. Therefore the releases to the environment are regularly monitored and proper measures are taken in cases of breaching the ELV's. For the same purpose the company has implemented an environmental management system according to EMAS Regulation. Nevertheless, since three years ago the 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.

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 remediation of the adverse effects from these non-compliances you agreed with the operator to produce a compliance strategy for preventing future breakings of permit 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.