

**AVAILABLE INFORMATION AND DATA GAPS
ABOUT GENERATION, TREATMENT AND
SHIPMENT OF POPS/PCB WASTE IN
SERBIA**

**Nebojsa Redzic
Head of Department
Environmental Protection Agency**

COLLECTION OF DATA

- ✘ The main prerequisite for the analysis of waste management is adequate collection of data.
 - ✘ Data collection is based on the existing legislation of the Republic of Serbia, EU directives, as well as obligations deriving from various international treaties
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REGULATIONS:

- Rulebook on the methodology of the preparation of national and local register of pollution sources, as well as the methodology of the types, methods and deadlines of data collection ("RS Official Gazette" No. 91/2010),
- Rulebook on forms of daily records and annual report on waste (Official Gazette of RS, no. 95/2010)
- Rulebook on the methodology of collecting data on the composition and quantity of municipal waste in the territory of local government units (Official Gazette of RS, no. 61/2010)
- Rulebook on packaging and packaging waste management report forms (Official Gazette of RS, no. 21/2010)
- Regulation on products which become special waste after use (Off. Gazette of RS, no. 89/2009, 8/2010 and 21/2010)

QUESTIONNAIRE

GIO 1	Producers of waste for generated waste / Operators of facilities for the reuse (treatment) of waste for residual waste
GIO2	Operators of waste disposal facilities for collected and disposed waste
GIO3	Operators of facilities for the reuse of waste for collected and processed waste
GIO4	Waste Exporters for exported quantities of waste
GIO5	Waste Importers for import quantities of waste
KOM 1	Public enterprises the utilities submit data on municipal waste management

Document on the movement of hazardous waste



The generated amount of waste containing pesticides (POPs) in 2014.

Waste code	Sort of waste	Quantity (t)
02 01 08*	agrochemical waste containing hazardous substances	2.62
15 01 10*	packaging containing residues of or contaminated by hazardous substances	948.4
20 01 19*	Pesticides	0.6

THE GENERATED AMOUNT OF WASTE CONTAINING PESTICIDES (POPS)

Waste code	Sort of waste	Quantity (t)			
		2011	2012	2013	2014
02 01 08*	agrochemical waste containing hazardous substances	/	0.04	0.53	2.62
15 01 10*	packaging containing residues of or contaminated by hazardous substances	499.2	690.8	740.2	948.4
20 01 19*	Pesticides	/	/	1.2	0.6

The quantities relating to the waste with index number 15 01 10 * represent the amount of packaging containing residues of hazardous substances or contaminated by hazardous substances, and not just the packaging contaminated with pesticides.

THE EXPORTED AMOUNT OF WASTE CONTAINING PESTICIDES (POPS)

Waste code	Sort of waste	Quantity (t)			
		2011	2012	2013	2014
02 01 08*	agrochemical waste containing hazardous substances	/	/	/	/
15 01 10*	packaging containing residues of or contaminated by hazardous substances	78.20	/	40.20	73.30
20 01 19*	Pesticides	59.50	/	/	/

Treatment

Waste code	Sort of waste	Quantity (t)			
		2011	2012	2013	2014
02 01 08*	agrochemical waste containing hazardous substances	/	/	/	/
15 01 10*	packaging containing residues of or contaminated by hazardous substances	20.4	288.3	474.1	859.4
20 01 19*	Pesticides	/	/	0.1	/

INVOLVES PREPARATION FOR THE TREATMENT (PRETREATMENT) AND STORAGE OF WASTE DESTINED FOR OPERATIONS R1-R12

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- ✘ Due to the lack of facilities for treatment or disposal of hazardous waste in Serbia, currently the only way to address the issue of POPs wastes (including POPs pesticides and contaminated packaging) is to be kept in temporary storage, and when the conditions are fulfilled (primarily in terms of funding) to be exported abroad for incineration in the appropriate hazardous waste incinerators.
 - ✘ With regard to the destruction of the contaminated packaging (including one that is potentially contaminated with POPs pesticides) can be considered the potential for the use of existing oven cement for incineration of this type of waste.

PCB WASTE

- ✘ Preliminary inventory shows that there are many places in the Republic of Serbia with transformers and condensers that are not in use and which in terms of use values represent waste.
- ✘ A large number of these equipment has been declared as waste, and as such are temporarily disposed of as far as possible in a safe way.
- ✘ They are mainly transferred to the part of the company designed for storage, close to where they were in operation (improvised warehouses), considering that in Serbia there is no hazardous waste.

INFORMATION FROM NIP

- ✘ In some cases leaked capacitors or oils that are contaminated fluids based on PCBs are placed in barrels and tanks. However, certain number from the many reasons is not declared as waste and not properly stored.
- ✘ The general conclusion is that the Republic of Serbia there is not a storage facility for this kind of waste.
- ✘ In all places where there is equipment out of use (waste) or waste contaminated with PCB-based fluid, with maximum involvement of those who care about facility, the safety measures are taken and achieved full control over the object.

In 2014 was generated 71.12 t of waste containing polychlorinated biphenyls(PCBs). Out of the total reported amount of waste containing PCBs: 4,47 t is the waste that is comprised of oils for insulation and heat transfer containing PCBs, and 66.65 t are transformers and capacitors containing PCBs.

Waste code	Sort of waste	Quantity (t)
13 03 01*	insulating or heat transmission oils containing PCBs	4.47
16 02 09*	transformers and capacitors containing PCBs	65.6
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09	0.9

In the same period (2014) 127,83 tonnes of this type of waste was exported: Transformers and capacitors containing PCBs, equipment containing or contaminated with PCBs in the amount of 121.86 t and oil code 13 03 01 (oil for insulation and heat transfer with PCB) were discarded in an amount of 5.97 t.

Waste code	Sort of waste	Quantity (t)
13 03 01*	insulating or heat transmission oils containing PCBs	5.97
16 02 09*	transformers and capacitors containing PCBs	118.35
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09	3.51

THE GENERATED AMOUNT OF OF WASTE CONTAINING PCBS

Waste code	Sort of waste	Quantity (t)			
		2011	2012	2013	2014
13 01 01*	hydraulic oils, containing PCBs	0.4	/	/	/
13 03 01*	insulating or heat transmission oils containing PCBs	1.8	0.8	0.01	4.47
16 01 09*	components containing PCBs	/	/	/	/
16 02 09*	transformers and capacitors containing PCBs	39.4	12.6	34.4	65.6
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09	/	/	/	0.9
17 09 02*	construction and demolition wastes containing PCB	/	/	/	/

THE EXPORTED AMOUNT OF OF WASTE CONTAINING PCBs

Waste code	Sort of waste	Quantity (t)			
		2011	2012	2013	2014
13 01 01*	hydraulic oils, containing PCBs	/	/	/	/
13 03 01*	insulating or heat transmission oils containing PCBs	/	/	79.92	5.97
16 01 09*	components containing PCBs	/	/	/	/
16 02 09*	transformers and capacitors containing PCBs	39.4	12.6	277.85	118.35
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09	/	/	4.97	3.51
17 09 02*	construction and demolition wastes containing PCB	/	/	2.08	/

Register of licenses issued

Register of licenses issued is established and managed by the competent authority for issuing the permit and **it submits the registry information to the Agency.**

The licenses-issuing authorities

- + The Ministry of Agriculture and Environmental Protection
- + The competent authority of the Autonomous Province
- + Municipalities

Register of licenses issued

Waste from pesticides (POPs)

		Waste collection	Transport of waste	Storage of waste	Waste treatment	Waste disposal
02 01 08*	agrochemical waste containing hazardous substances	25	22	8	8	0
15 01 10*	packaging containing residues of or contaminated by hazardous substances	98	96	23	17	0
20 01 19*	Pesticides	37	33	9	2	0

Register of licenses issued of waste containing PCBs

		Waste collection	Transport of waste	Storage of waste	Waste treatment	Waste disposal
13 01 01*	hydraulic oils, containing PCBs	47	54	9	4	0
13 03 01*	insulating or heat transmission oils containing PCBs	47	53	9	5	0
16 01 09*	components containing PCBs	44	47	6	2	0
16 02 09*	transformers and capacitors containing PCBs	70	71	14	5	0
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09	70	69	14	4	0
17 09 02*	construction and demolition wastes containing PCB	28	29	6	3	0

Devices in use that contain PCBs

- ✘ In accordance with the Law on Waste Management ("Off. Gazette of RS", Nos. 36/09, 88/10) and Rules for the Treatment of equipment and waste containing PCBs ("Off. Gazette of RS", no. 37/11) SEPA keeps a register of the device in use that contain PCBs.
- ✘ 13 companies submitted reports on the devices in use that contain PCBs.

Devices in use that contain PCBs

- ✘ Of these 13 companies, eight indicated that they did not do a content analysis on the PCB.
- ✘ In addition to these deficiencies Activity Report are filled in different ways because the Ordinance on Handling of equipment and waste containing PCBs, leaving opportunities for different ways of filling in, and interpretations, which significantly complicates data collection.
- ✘ It is necessary in the future, to make certain amendments to the Regulations to clarify the obligations.

By analyzing submission of data, several problems have been noticed:

- ✘ Companies are not sufficiently informed that there is a reporting obligation,
- ✘ Companies do not know how to fill in the required forms,
- ✘ Companies do not want to fill in the forms submitted or they submit incomplete or incorrectly filled out data. We do not know if they sent complete information when they submit the Report.

Thank you for your attention

www.sepa.gov.rs

nebojsa.redzic@sepa.gov.rs