



BEAC WGE Subgroup on Hotspots Exclusion (SHE)

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Umeå, Sweden

Content

1. Give Background to Hot Spots List and SHE group
2. Explain Criteria & Procedure for Exclusion
3. Report on SHE's work and achievements
4. Present the first candidates for exclusion
5. Conclusions

Background 1 - "Hot spot history"

- 1995 - First Barents Environment Hotspot List (22 hotspots)
- 2003 - Revision resulted in 42 Hotspots described in NEFCO/AMAP Report". Ministers adopted with intension to have all hotspots excluded "after 10 years"

*42 hotspots = serious environmental problems with large differences!
No criteria for INCLUSION => No criteria for EXCLUSION!*

- 2008 – Ad-hoc Task Force on Elaboration of Procedures and Criteria on Exclusion of the Barents Environmental "Hot Spots"
- 2010 - Subgroup on Hotspots Exclusion (SHE): Mandate to facilitate the implementation of the Hotspots Exclusion Procedure

Background 2 – The Hotspot Report 2003



<u>Sector</u>		<u>Pollution problem</u>
Heat & power	4	Emissions to air
Industry	11	Emissions + Discharges
Mining	2	Emissions
Wastewater	10	Complex
Waste	10	Discharges
Polluted areas	3	Soil contamination
Pesticides	2	Hazardous
Sunken ships	1	Haz. Discharges + Navigation
Total	42	

Background 3: Criteria & Procedure Report

General Criteria

The negative impact, as addressed in the Barents Environmental "Hot Spots" List, does not violate the relevant environmental legislation or requirements of the Russian Federation

Specific Criteria

- Definition of hotspot boundaries
- Definition of Pollution parameters to be regarded
- BAT/ BEP application

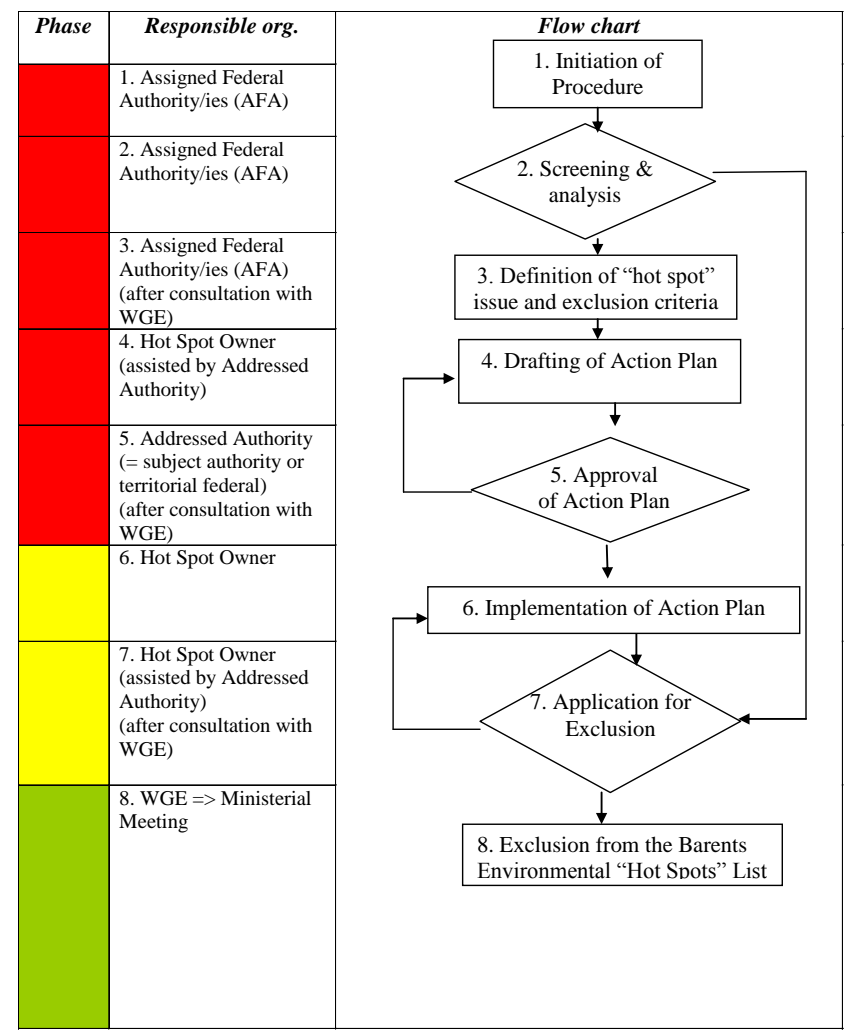

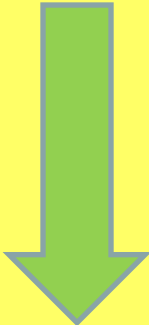


Table 2. Flow chart for proposed "hot spot" exclusion procedures

2.1 - The Exclusion Procedure Steps 1-5

<p>1. Initiation of the procedure</p>	<ul style="list-style-type: none"> - Assignment of Federal Authority - Formation of Regional Groups (HEG) - HEGs get overview and set priorities - Drafting of General Exclusion Plan
<p>2. Screening and analysis</p>	<ul style="list-style-type: none"> - Initiation of screening and analysis - Reports from Screening and Analysis
<p>3. Determination of specific criteria for exclusion of HS</p>	
<p>4. Initiation of Action Plan</p>	
<p>5. Approvement of Action Plan</p>	

2.2 - The Exclusion Procedure Steps 6-8

<p>6. Implementation of Action Plan</p>	
<p>7. Application for exclusion</p>	<ul style="list-style-type: none"> - Application for exclusion of the Hot Spot - Assessment of the HS Reports by the international experts
<p>8. Exclusion of the Hot Spot</p>	<ul style="list-style-type: none"> - Declaration of the HS as green - Recommendations for the future work

3.1 - SHE Overall Objective

the Exclusion procedure with all its staff and stakeholders is effectively operative in all five federation subjects




relevant actions or projects have been or are likely to be launched for all the 42 "Hot Spots" by 2013

- + Six Operative Objectives for the SHE Work**
- + Four Operative Objectives for Swedish Chairmanship**

3.2 - Work done

- Focus on Step 1 “Initiation of the Procedure” for all 42 HS
 - Establish regional Hot spot exclusion groups (HEGs)
 - Mandates for HEGs
 - Refine Exclusion Procedure
- SHE coached HEGs through the Procedure’s Steps 2,7 and 8
- Visits to Hot Spots
- SHE guided consultants to launch the “Barents Hot Spots Information System” at www.beac.st
- Many Meetings!
 - 20 SHE-meetings, 3 SHE-HEG meetings in the regions and 3 joint SHE-HEG meetings with all five HEGs in Moscow

3.3 - Assessment of Achievements SwC

<p>1) Initiation of Procedure (Step 1) is in full progress for all 42 "Hot Spots" by 2010</p>	<p>Step 1 completed for all 42 hotspots late 2011. In follow of continued implementation, some documents may require refinement, Objective 1) is done (however with delay)! </p>
<p>2) Screening & Analysis (Step 2) completed for at least two "Hot Spots" in each of the five Federation Subjects by 2011</p>	<p>Step 2 is completed only for one hot spot each in Arkhangelsk, Karelia and Murmansk but for none in Komi and Nenets. Objective 2) achieved only partially, however 3 of 5 regions have started Screening & Analysis</p>
<p>3) regional Hot Spot exclusion groups established in all five Federation Subjects by 2010,</p>	<p>Chairs of the regional HEGs appointed in 2010, but the actual appointment of members according to mandate was made only late 2010. Objective 3) is done (however with delay). </p>
<p>4) Applications for Exclusion (Step 7) submitted for at least one or two Hot Spots by 2010.</p>	<p>No Applications for Exclusion were received in 2010 but were received for 3 hotspots in 2011. Objective 4) is done (however with delay). </p>

4. – First Candidates for Exclusion!

- HEGs have submitted “Screening & Analysis reports” and submitted Applications for Exclusion for three hotspots:
 - K10 – Stocks of Obsolete Pesticides (Karelia)
 - A10 – Stocks of Obsolete Pesticides (Arkhangelsk)
 - M8 – Mercury containing wastes (Murmansk)
- SHE together with Technical Expert Committee have assessed and prepared their recommendations

ENVIRONMENTAL HOT SPOTS IN THE BARENTS REGION



4.1 - Hot Spot K10

Republic of Karelia – Stocks of obsolete pesticides

- 2,3 tons DDT
- Organisation in charge: "Agrohimija"



- The pesticides were transported to Finland and have been incinerated by the company "Ekokem" in 2008



Agrochemistry Joint Stock Co
Stacija Tomitzy
Karelskaja respublika
RU-185650 Petrozavodsk
RUSSIA

08.07.2008

EKOKEM declaration number: 253242/1, 253243/1, 253244/1, 253245/1
Movement document number: FI 002142-1
Number of packages: 60

CERTIFICATE OF DISPOSAL

We hereby certify, that your waste consisting of total 12 780 kg Pesticide waste, which was delivered on 12.06.2008, has been received to Ekokem, Riihimäki and safely disposed of by incineration by 08.07.2008.

Certified by

EKOKEM OY AB


Nina Mäntylä

4.1 - Hot Spot K10

Environmental benefits

- All 2.3 tons of DDT were destroyed (= formal HS)
- Additional 10.5 tons of obsolete pesticides were destroyed
- Practical experience of transboundary waste shipment

Remaining issues after Exclusion

- In the AMAP/NEFCO report it is stated that Republic of Karelia has around 20 tons of obsolete pesticides. From the report it is unclear what has happened with other 8 tons

Recommendations for improvement:

- For the Hot Spot itself and surrounding areas – samples should be taken and analysed for contamination
- The rest of the pesticides in Karelia should be treated in environmentally sound manner
- Utilization of pesticides on a landfill is not environmentally (or financially) sound
- Sufficient domestic destruction capacity should be provided

4.2 - Hot Spot A10

Arkhangelsk Oblast – Stock of obsolete pesticides

- 40 tons of obsolete pesticides
- No owner => Arkhangelsk Oblast
- In the period 2004-2006,
67 tons were disposed of
at Krasny Bor and Obninsk
landfills



4.2 - Hot Spot A10

Environmental benefits

- All the pesticides from Arkhangelsk oblast were removed and according to the authorities there are no more pesticides stored in Arkhangelsk Oblast

Remaining issues after Exclusion

- Disposal on landfill is not considered to be environmentally sound measure
- The last 4.93 tons of pesticides were transported to the facility in Obninsk, which according to the experts' knowledge doesn't accept mixed pesticides

Recommendations for improvement:

- In order to avoid disposal of pesticides into landfills, environmentally sound destruction capacity for pesticides should be developed
- Clarify the fate of the pesticides mixture that were not accepted by Krasny Bor
- evaluate the environmental performance of the disposal sites of Krasny Bor and the city of Obninsk
- Consider possibilities to retrieve the persistent organic pollutants stored in Krasny Bor and Obninsk for environmentally sound destruction

4.3 - Hot Spot M8

Murmansk Oblast – Mercury-containing waste

- "There are 2 enterprises which recycle the luminescent lamps but they themselves pollute the environment"
- Modernisation of equipment is done!



4.3 - Hot Spot M8

Environmental benefits

- the new equipment for utilisation of mercury containing waste is purchased, installed and operates with good capacity

Remaining issues after Exclusion

No information on

- storage facilities, procedures for handling, EMS
- final treatment or possible transport to treatment facilities etc.
- technical specification of the URL-2m equipment

Recommendations for improvement:

- Sampling of ground and groundwater of the Spot (mercury analysis).
- If high mercury content => cleaning of soil.
- Check whether Ecotrans operates according to BEP.
- Clarify the disposal of mercury containing waste from the lamp destruction process

4.4 – Decisions and Conclusions

- BEAC WGE has approved exclusion of all 3 HS
 - K10 – Stocks of Obsolete Pesticides (Karelia)
 - A10 – Stocks of Obsolete Pesticides (Arkhangelsk)
 - M8 – Mercury containing wastes (Murmansk)
- Reports, however, must be refined till next WGE!
- The Revised Hot Spots List from 2011 will contain 39 hotspots!

5.1 – Overall Conclusions

- The Procedure seems to work and is well about to be implemented
- Work with Hotspot Exclusion takes time and requires attention, effort, planning, communication
- The role of the HEGs is very important!
- Further support needed – long way to go
- Positive co-operation – both between countries and central-regional levels
- Potential to transfer experience to other areas, e.g. the Russian Arctic

5.2 - Recommendations for further work on Hot Spot Exclusion

- Make SHE a permanent subgroup under BEAC WGE
- Approve the refined Hot Spots Exclusion Procedure
- Approve the exclusion of the proposed Hot Spots
- Provide sufficient administrative resources, in particular in the authorities
- Up-date the Barents environmental hot spot report till next Ministerial meeting
- Continued supportive activities as well as continued implementation of the Hotspots Information System

**THANK YOU
FOR YOUR ATTENTION!**