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# French experience in the implementation of the Additional Protocol France - Euratom - IAEA

# French experience in the implementation of AP

1. Aims and specificities of the French AP
2. Preliminary stages before the initial declaration
3. Collecting and processing the declared information
4. The French declarations for AP (Infcirc/290/add.1)
5. Conclusions

# Aims and specificities of the French AP

- Entry into force : April 30th, 2004 (like 14 other EU members)
- Providing additional information to IAEA concerning the activities carried out by French entities in cooperation with Non Nuclear Weapon States (NNWS) :
  - Research and Development on the nuclear fuel cycle (involving or not Nuclear Material),
  - Transfers of NM exempt of safeguards,
  - Export of certain types of equipment or non nuclear materials,
  - Uranium Mines & concentration plants, source material.

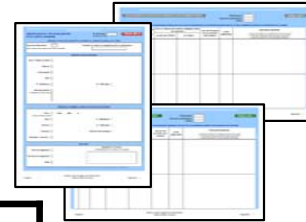


**Facilitate the detection by the IAEA of undeclared nuclear activities in a NNWS**

# Preliminary stages before the initial declaration

## 1. Elaboration of specific declaration supports

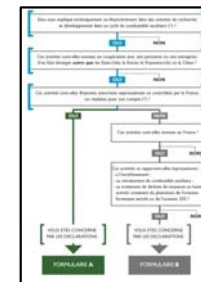
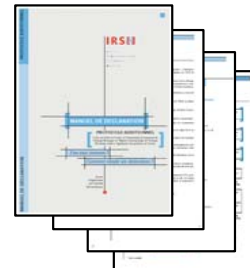
- 7 Declaration forms (Ms Excel© format)



Form ID	Identification of the entity	
Form A	Public R&D cooperation	Art. 2.a.i)
Form B	Private R&D cooperation	Art. 2.b.
Form C	10-years plans related to development of nuclear fuel cycle	Art. 2.a.viii)
Form D	Import/Export NM exempt of Safeguards	Art. 2.a.vi)
Form E	Scale of operation listed in Annex I	Art. 2.a.iii)
Form T	Export of equipment and non NM listed in Annex I or II	Art. 2.a.vii)a)

- Declaration Handbook (3 parts) :

- Are you concerned?
- Different types of declarations,
- How to fill a declaration form?



# Preliminary stages before the initial declaration

## 2. Identification of the entities

- No specific or dedicated data base was available
- So IRSN decided to elaborate one :
  - Request made on the Kompass© data base following criteria corresponding to activities listed in the AP (nuclear, R&D, equipment ...),
  - Information provided by the French export control division of the Ministry of Industry,
  - French companies holding NM.



List of the 1741 entities  
potentially concerned

# Preliminary stages before the initial declaration

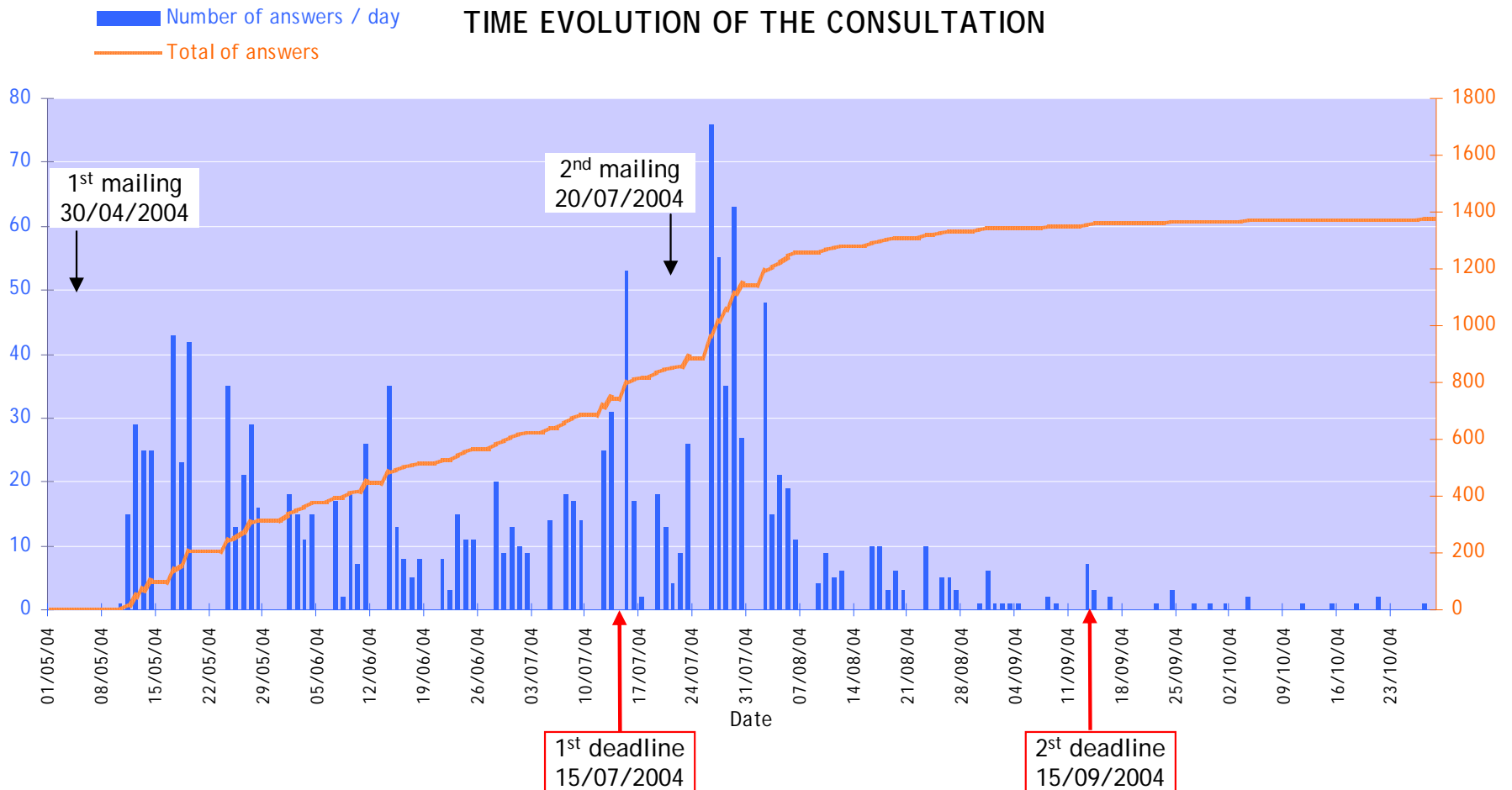
## 3. Meetings with major operators

- Main actors of the French nuclear sector
- Public nuclear research organizations
- Agenda :
  - Presentation of the AP, its implementation in France and consequences for the entities concerned,
  - Identification of coordinators for the implementation of AP inside those entities.

# Collecting and processing the declared information

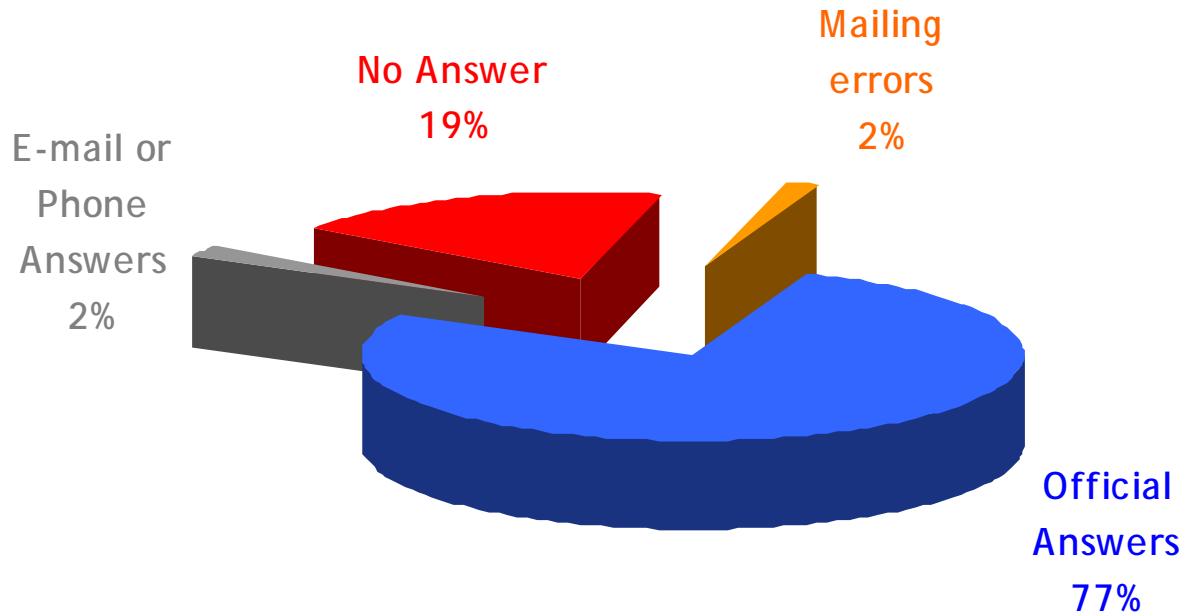
## Timetable of the consultation (for initial declaration)

- April 30th 2004 : declaration file sent to **1741** entities



# Collecting and processing the declared information

## Synthesis of the consultation (for initial declaration)



Number of entities consulted	1741	
<b>Official Answers</b>	<b>1344</b>	<b>77,2%</b>
E-mail or phone Answers	38	2,2%
<b>No Answer</b>	<b>328</b>	<b>18,8%</b>
<b>Mailing errors</b>	<b>31</b>	<b>1,8%</b>

➔ In October 2004 :  
rate of answer **79%**

# Collecting and processing the declared information

## Processing the entities' declarations in :

- Verifying that the information provided was exhaustive,
- Verifying the consistency of the information declared with the scope and objectives of the French AP,
- Consolidating the declarations of the same R&D program made by different entities involved,



**Transferring the information provided under French declaration forms into IAEA declaration forms.**

# The French declarations for AP

## 1. Initial declaration

<i>AP article</i>	<i>Number of French declaring entities</i>	<i>Number of entries</i>	<i>Number of programs</i>	<i>Others</i>
<i>Article 2.a.i)</i> Public R&D cooperation	13	262	63	- public companies, research institute and university - main activities : reactors - other activities : nuclear fuel, reprocessing and processing of waste.
<i>Article 2.a.iii)</i> Annex I activities	8	9	9	- private companies
<i>Article 2.a.viii)</i> Ten years plan	8	34	20	- private companies, research institutes and public companies
<i>Article 2.b)</i> Private R&D cooperation	0	0	0	All R&D cooperation is carried out by state controlled companies



**22 French entities declared**

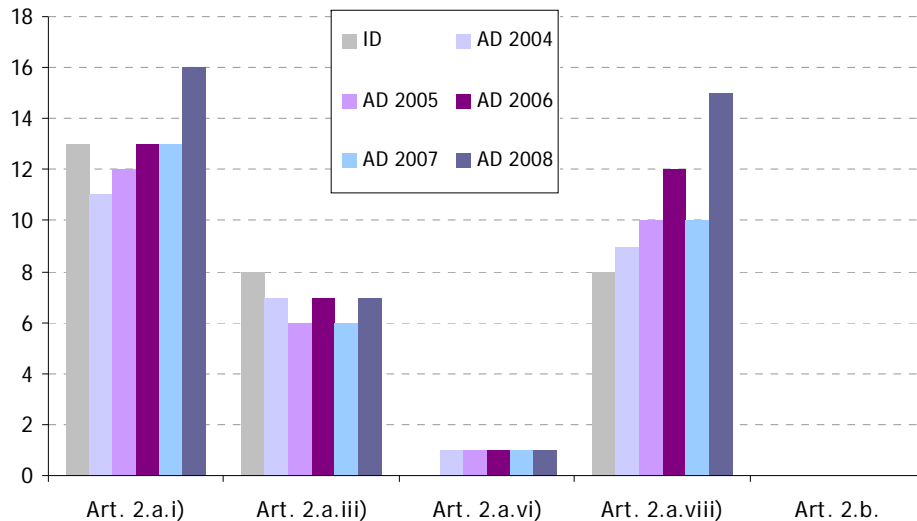
# The French declarations for AP

## 2. Update of the initial declaration [2004 – 2008]

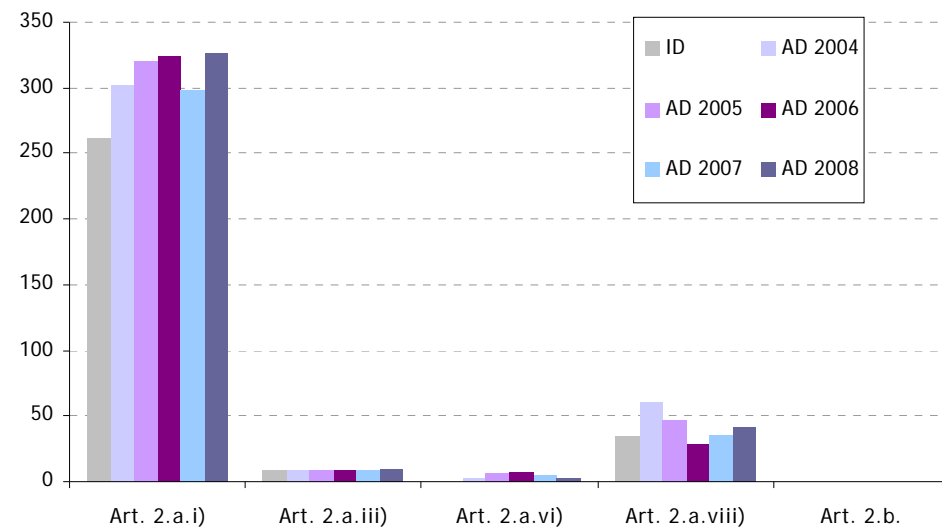
- # 200 entities consulted every year :
  - Declared in previous declaration,
  - Not declared in previous declaration and may be concerned,
  - Information from French export control division.
- 2008 : a new French declaration Handbook available



Number of French declaring entities



Number of entries in the French declaration



# The French declarations for AP

## 3. Quarterly declaration [Art. 2.a.vii)a]

### Export of equipment or non NM listed in annex I or II

- # 55 entities consulted (every quarter or once a year) :
- Phone assistance
- Since April 2004, 44 quarterly declarations were sent to IAEA (2.a.vii)a) + Annex III)

Average number of French Entities involved (per declaration)	Average number of entries in a declaration	Main EU country members involved	Main others countries involved (no EU members)
8	30	- Belgium - Germany - Netherlands - Spain	- Japan - South Korea - South Africa - Switzerland

# Conclusions

- AP implementation in France : heavy workload for IRSN (and entities) for the initial and annual declaration (> 1 man.year)
- Important quantity of information available for the IAEA concerning cooperation of French entities with NNWS
- Updates are sent on time to the IAEA (every year) and quality of declarations is improving each year
- Since 2006 (AD 2005), a copy of the French declaration is also provided to the IAEA under Protocol Reporter format to facilitate the IAEA's work