

*INES National Officers Annual Meeting -Vienna, 22-24 October 1997*  
*CSN Consejo de Seguridad Nuclear Spain*

***INES IN SPAIN***

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## ***INES in Spain***

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## **1. Applicability**

- \* All operating NPPs since October 1990
- \* All fuel cycle activities since 1994 (mining, fuel making, decommissioning, transport)
- \* Waste disposal

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## **2 Rating Procedure**

- \* Rating carried out by Regulatory Body (CSN)
- \* Each 24 hour event report from applicable facilities screened as for INES Rating.
- \* If susceptible to overpass level 0, a phone meeting CSN-Licensee activated by National Officer to gather further information.
- \* CSN decides rating.

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### **3 Public Information**

- \* For events that either reach level 1 or attract public interest, a press release is prepared at CSN by media specialists in collaboration with INES N. Officer and distributed to local authorities and licensee.
  
- \* Events rated above level 1 or attracting great public interest are also distributed by CSN to the media.

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#### **4 Activities in 1997**

- \* In June 18-20 two staffers from IAEA delivered a training seminar on the use of INES in Madrid

19 people attended the seminar, coming from all Spanish NPPs, fuel cycle and waste disposal facilities, plus CSN staffers

- \* INES “facility officer” appointed at each non NPP facility for discussion of ratings (at NPPs available since 1994)

Exercises of rating for facility-specific events made at each non NPP facility

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**5. Events rated above level 0  
(October 1996 - September 1997)**

*\*\* 9 Operating NPPs, 1 NPP in decommissioning, 1 Fuel Making Factory\*\**

- \* Vandellós 1, NPP in decommissioning), 28-2-96. Am-241 internal contamination of several workers while cleaning up equipment. Level 1 (Rated in December 1996)
- \* Almaraz 2 NPP, 17-1-97. 3 out of 48 control rods show slightly slow insertion time at a reactor scram. Level 1
- \* Juzbado, Fuel making factory, 5-2-97. Supposedly empty containers sent to USA found to contain 102 Kg of enriched uranium oxide. Level 1
- \* Vandellós 1. 26-3-97. (Rated October 1997) Am-241 internal contamination of one worker, DTPA administered. No ICRP 60 limit overpassed. Level 1 to be confirmed

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### **5. Events rated above level 0 (Cont)**

- \* S. M<sup>a</sup>. Garoña, 30-5-97. At refuelling outage 1 of 2 tested RCS safety valves showed set point to open 4% under technical specification (TS) limit; it was adjusted and plant started up without testing 2 more valves as required by TS. After 2 weeks in operation plant shutdown to test 2 valves, whose set points were found within TS limit. Level 1.



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## **6. Difficulties**

- \* User manual has to be used in combination with Addendum, specially for non reactor facilities
- \* The recommended time frame for rating and communication (24 hours) at times is impossible to meet, specially when bioassays are required to estimate internal dose.
- \* As national practices vary, standard "Statutory dose limits" should be agreed internationally, e.g. the ICRP 60 ones.
- \* Recommendation for picking the higher INES level in case of doubt and possible further downrating may be not practical. At times, taking longer time and delivering a precise rating is better off.