

Preguntas formuladas a España por las
Partes Contratantes en la séptima reunión
de revisión de la Convención sobre
Seguridad Nuclear

Questions Posted To Spain in 2017

No.	Country	Article	Ref. in National Report	Question	Status	Support Documents
1	France	General	Summary	No summary : The contents and scope of the Spain's report is based on the recommendations established in the section C, but not in the section B (for summary), of the Informative Circular on Guidelines INFCIRC/572/Rev.5.	Answered	
2	France	General	No summary	What is the strategy of Spain about commitment in international cooperation?	Answered	
3	France	General	Conclusion, 173	Spain points out that "In July 2014, a pilot application for the supervision of transversal components (human and organisational) was initiated". Could Spain provide details on this pilot application and on its results?	Answered	
4	Germany	General	p. 184/III. Conclusions	Spain reports that an IRRS-mission will be invited for 2018 and that this will be the 2nd IRRS mission in Spain. What were the main results of the previous IRRS/IRRS-Follow up? Were there any findings that could not be closed so far? If yes, which ones and what is the reason?	Answered	
5	Germany	General	-	The Spanish report has no summary. A summary would be helpful to get a first overview.	Answered	
6	Japan	General	P2	Regarding decommissioning, according to the national report, once operator shutdown and determine to suspend operation, ownership will transfer to ENRESA. Please explain former operator's responsibilities during decommissioning process?	Answered	
7	Japan	General	P2	Regarding decommissioning, please explain decommissioning working process in ENRESA, such as how long does it take to dismantle the NPP?	Answered	
8	Mexico	General	p.174	All the Spain's nuclear power plants have authorization to operate until 60 years under the license renewal process. How the CNS will obtain enough human and financial resources to deal with this issue in the future?	Answered	
9	Mexico	General	all	How is it guaranteed in Spain the technical and economic resources for the management for dismantling of the Vandellós I and José Cabrera NPP's?, Are there any projections, programs or studies regarding its final storage?, Is there possibility to reduce them with the reprocessing	Answered	

			method like it is occur at generated by Vandellos Nuclear Power Plant?	
10 Netherlands	General	Introduction	Can CSN explain its phases of decommissioning? How long will the dormancy phase for Vandellos be and what determines the length of this period?	Withdrawn
10 Netherlands	General	Introduction	Can CSN explain its phases of decommissioning? How long will the dormancy phase for Vandellos be and what determines the length of this period?	Answered
11 Netherlands	General	general	What do you consider the main findings and resulting actions, from your evaluation of the IAEA Fukushima report?	Answered
12 Netherlands	General	general	What is the position of CSN on the special rapporteur challenges of the CNS6?	Answered
13 Switzerland	General	Vienna Declaration on Nuclear Safety	Principle 1 1.1 How do you define 'a new nuclear power plant'? For example: do you consider a power plant to cease being a 'new nuclear power plant' once operation begins?	Answered
14 Switzerland	General	Vienna Declaration on Nuclear Safety	Prevention 1.2 How does your national requirements and regulations incorporate appropriate technical criteria and standards to address the objective of preventing accidents in the commissioning and operation of new nuclear power plants? For example: can you describe the basic design objectives and the measures you have in place to ensure the robustness and independence of defense in depth measures? Consider for instance inclusion of implementation of Regulatory requirements for: • Robustness of DiD and independency of the levels of DiD; • Design Extension Conditions (DEC); • practical elimination of high pressure core melt scenarios; • achieving a very low core melt frequency; • protecting digital safety equipment against Common Cause Failure (CCF). • External events analysis	Answered
15 Switzerland	General	Vienna Declaration on Nuclear Safety	Mitigation 1.3 How do your national requirements and regulations incorporate appropriate technical criteria and standards to address the objective of mitigating against possible releases	Answered

			of radionuclides causing long-term offsite contamination and avoiding early radioactive releases or radioactive releases large enough to require long-term protective measures and actions. For example: can you describe the measures you have in place to protect against severe accidents and your accident management arrangements - how do you protect staff during accident management? Consider for instance inclusion of implementation of Regulatory requirements for: • Engineered systems to protect the containment; • engineered systems to cool the molten core; • severe accident management, protection of staff during the accident. • Provision and resilience of Emergency Mitigation Equipment (EME)	
16 Switzerland	General	Vienna Declaration on Nuclear Safety	Principle 2 2.1 How do your national requirements and regulations address the application of the principles and safety objectives of the Vienna Declaration to existing NPPs?	Answered
17 Switzerland	General	Vienna Declaration on Nuclear Safety	2.2 Do your national requirements and regulatory framework require the performance of periodic comprehensive and systematic safety assessments of existing NPPs – if so, against what criteria/benchmarks are these assessments completed and how do you ensure the findings of such assessments are implemented?	Answered
18 Switzerland	General	Vienna Declaration on Nuclear Safety	2.3 Do your national requirements and regulations require reasonably practicable/achievable safety improvements to be implemented in a timely manner – if so, against what risk/engineering objective or limit are these judged and can you give practical examples?	Answered
19 Switzerland	General	Vienna Declaration on Nuclear Safety	Principle 3 How do your national requirements and regulations take into account the relevant IAEA Safety Standards throughout the life-time of a Nuclear Power Plant.	Answered
20 Switzerland	General	Vienna Declaration on Nuclear Safety	General question What issues have you faced or expect to face in applying the Vienna Declaration principles and objectives to your existing fleet or new build of Nuclear Power Plants	Answered
21 Canada	Article 6	6.1, Asco NPP 1 and 2 p.4	It was reported that no planned inspections were carried out at ASCO NPP1 and 2 for the period of the report. Why were there no planned inspections carried out in this time	Answered

			frame? Is the Basic Inspection Program (PBI) carried out every two years at each NPP?	
22 India	Article 6	Section 6.1, Page 5	The report mentions of an apparent finding of use of commercial grade components with suitable “dedication”, in safety related systems unilaterally by the utility at the Trillo NPP, during inspection by CSN, following which, the plant was placed in “white category”. Can Spain give more details on the regulatory actions following this finding? Did CSN initiate any changes in the regulatory requirements related to use of commercial grade components in safety/safety related systems? Was this operating experience shared internationally?	Answered
23 Mexico	Article 6	p.5	In relation with to the neutronic noise that has been detected in the Trillo NPP. Is there a programmed date for the final explanation of the phenomenon with the purpose of taking the necessary preventive actions to reduce it significantly? Please, explain on the current progress of these studies.	Answered
24 Mexico	Article 6	pp.7-8	The Improved Technical Specifications (ETFM), according to the standard NUREG-1431, Rev.4. of the National Report, are in transition for Almaraz NPP I and II and the Ascó NPP I and II. Please provide information on the program to apply these ETFM to the Cofrentes, Trillo, Vandellós II y Sta. Ma. de Garoña NPP's.	Answered
26 Netherlands	Article 6	Trillo	Use of commercial grade components issue. It is written that the issue is solved. Does this mean that commercial grade components are no longer used in safety-related positions? Or are there now criteria agreed with CSN, and complying with them allows to use commercial grade?	Withdrawn
27 Netherlands	Article 6	Trillo	Noise problem. According to CSN, this is solved from a safety point of view. What has Trillo accomplished in order to have CNS to arrive at this conclusion? Does this mean that no further actions have to be done by Trillo?	Withdrawn
28 Netherlands	Article 6	6.5	The Vienna Declaration also aims at taking measures at existing power plants, if reasonable, to practically eliminate early and large area releases. This recommendation might	Withdrawn

			go beyond the regular PSR's. What are the pro-active actions from CSN and the power plants (e.g. R&D) to further strengthen the nuclear safety in this respect? Already noted in the text with article 18, is the possibility of using spraying of buildings.	
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26 Netherlands	Article 6	Trillo	Noise problem. According to CSN, this is solved from a safety point of view. What has Trillo accomplished in order to have CNS to arrive at this conclusion? Does this mean that no further actions have to be done by Trillo?	Answered
27 Netherlands	Article 6	art. 6	The CSN is currently evaluating the licensee's request to transition to the Improved Technical Specifications (ETFM), in accordance with the NUREG-1431 standard, Rev.4. Please explain the improvements, and why they are of importance to nuclear safety.	Answered
28 Netherlands	Article 6	6.5	The Vienna Declaration also aims at taking measures at existing power plants, if reasonable, to practically eliminate early and large area releases. This recommendation might go beyond the regular PSR's. What are the pro-active actions from CSN and the power plants (e.g. R&D) to further strengthen the nuclear safety in this respect? Already noted in the text with article 18, is the possibility of using spraying of buildings.	Answered
29 United Arab Emirates	Article 6	3, 4	It says root causes identified, please summarize the root causes and any common themes and regulatory responses.	Answered
30 United Arab Emirates	Article 6	7	Please summarize the specific locations which were provided protection from atmospheric discharges.	Answered
31 United Arab Emirates	Article 6	9	This tracking led to the conclusion that... a dose reduction has been observed, how much of a reduction, how much during outage how much during operating cycle.	Answered
32 United Arab Emirates	Article 6	9	What were the results of the studies on severe accident management capacity and use of the severe accident management guidelines?	Answered
33 United Arab Emirates	Article 6	9	Statement compliance with CSN Instructions IS-27, on general design criteria relating to the electrical independence of safe shutdown equipment control circuits between their remote position and the control room, and	Answered

IS-30, on control room fire protection requirements, is required, does this mean that non-compliance with IS-27 was found?

34 Germany	Article 7	p. 17/ch. 7.1.1	Could Spain provide information on the impact of the new Law 15/2012, of December 27th, on fiscal measures for energy sustainability and Law 24/2013, of December 26th, on the Electricity Industry on nuclear safety?	Answered
39 Netherlands	Article 7	7.4	The basic inspection plan has a two year cycle and amongst others prioritises on the areas of highest potential risk. Can you explain how this is applied in the two years cycle of the PBI? Which areas are inspected and what is the depth of the programme of inspection for that area?	Withdrawn
35 Netherlands	Article 7	art. 7	More and more countries combine the authorities in a single entity for safety and security. Have there been efforts to do that in Spain?	Answered
36 Netherlands	Article 7	7.4	The basic inspection plan has a two year cycle and amongst others prioritises on the areas of highest potential risk. Can you explain how this is applied in the two years cycle of the PBI? Which areas are inspected and what is the depth of the programme of inspection for that area?	Answered
37 United States of America	Article 7	7.1.3	The United States commends the CSN on a well written and comprehensive report. We noted that the CSN established on overall action plan in response to the WENRA study on the harmonization of reactor safety. The CSN has issued 14 of 15 instructions thus far. The last instruction is currently being drawn up. (1) What is the subject of the remaining instruction? (2) When does the CSN anticipate its issuance? (3) Were there any obstacles or difficulties with the instruction's development?	Answered
38 United States of America	Article 7	7.4	With regard to the Integrated Plant Supervision System (SISC), CSN now oversees three transversal areas that affect all pillars of the system. A pilot study was established for one year, but was extended until April 2016. (1) What is the status of this effort? (2) What were the major lessons learned?	Answered
39 Canada	Article 7.2.2	p.20 and 21	During the period covered by this report the CSN approved a number of instructions that are binding technical standards to be adhered to and have been integrated into the legal system. How were the transitions to these	Answered

			instructions addressed? (that is, were licensees given a time frame to become compliant within?) Have the compliance to these new instructions been measured? If not are there plans to verify compliance with them in the Basic Inspection Program (PBI)?	
40 Finland	Article 7.2.3	Chapter 7.4	Does the Basic Inspection Plan include control inspections that have been carried out unannounced in last years? If so, could you please give an example of what areas are these inspections focused?	Answered
46 Netherlands	Article 8	figure 8.1	What is the role of the supporting function "Inspection Unit".	Withdrawn
41 Netherlands	Article 8	figure 8.1	What is the role of the supporting function "Inspection Unit".	Answered
42 United States of America	Article 8	general	CSN identified maintaining and enhancing its high technical and professional level and knowledge as a challenge, and stated that it is currently developing a knowledge management model adapted to its specific needs and based on IAEA recommendations. (1) How has the progress of this effort been going? (2) Has CSN encountered any difficulties?	Answered
43 Belgium	Article 8.1	8.1.2.f) pg 34	Is the obligation for CSN of developping and implementing a Management System explicitly written in the Spanish regulations ?	Answered
44 Belgium	Article 8.1	8.1.2.f) pg 34	How is the principle of priority to safety addressed in the CSN's Management System?	Answered
45 Netherlands	Article 8.1	art. 8.1	Many regulatory bodies in the world, face the challenge to transfer knowledge of retiring or senior staff to younger and/or new staff. If this is also the case in Spain, do you have a dedicated program for knowledge transfer and do you provide trainings to senior staff to improve their skills in knowledge transfer?	Answered
46 Russian Federation	Article 8.1	Article 8, para 8.1	According to para 8.1, the Ministry of Industry, Energy and Tourism (MINETUR) is responsible for granting authorisations for NPP operation. The State body solely responsible for nuclear safety and radiological protection is Nuclear Safety Council (CSN) with the function of performing inspections. According to para 8.1.2 b, the workforce of the CSN is comprised of 451 people, of whom 209 are nuclear safety and radiation protection civil servants. The average age of the CSN personnel is 53 years. Questions: • What measures are taken (if at all) by CSN to attract young	Answered

			personnel? • Is the number of CSN engineers (209 people) sufficient to perform engineer's review of nuclear and radiation safety of 8 operating nuclear units and perform inspections at the nuclear power plants?	
47 Russian Federation	Article 8.1	p. 27	Could you please give structure of the departments of the Ministry of Industry, Energy and Tourism (MINETUR) responsible for licensing of nuclear facilities, including information about the staff number, competences, average age, funding etc., because para 8.1.2 describes only the CSN structure.	Answered
48 Russian Federation	Article 8.2	Article 8	As defined in Article 2 of the Convention on Nuclear Safety, "regulatory body" means any body or bodies given the legal authority to grant licences and to regulate the siting, design, construction, commissioning, operation or decommissioning of nuclear installations. In Spain, authorisations (licences) for operation of nuclear units are granted by the Ministry of Industry, Energy and Tourism (MINETUR) while CSN has the authority to oversee all types of activities stipulated in a licence and issue safety guides. This mission of CSN does not fully comply with the provisions of Articles 2 and 7 of the Convention. Have any actions been taken to make CSN functions comply with the Convention provisions related to granting of licences and to regulation of the siting, design, construction, commissioning, operation or decommissioning of nuclear installations?	Answered
49 Belgium	Article 9	9.1, pg 41	Are the licensee's requirements for transparency explicitly written in the Spanish regulations, or is it only at the licensee's own initiative?	Answered
50 Belgium	Article 10	§10.3, pag.45	Please elaborate on the "specialists, means, evaluations, on-going actions, etc" used to inspect the safety culture process at each nuclear power plant.	Answered
51 Germany	Article 10	p. 44	Spain's report mentions that all plants have established a programme to improve their safety culture based on a common guideline. Could you provide more details on this guideline? Which international guidances or research results were taken into account?	Answered
52 Mexico	Article 10	pp.44	What have been the most important recommendations arisen from the assessments performed by WANO and OSART?, For each recommendation what is the proposal for	Answered

			solve them?	
59 Netherlands	Article 10	WANO/OSART	There seem to be only WANO peer reviews in Spain. It is known that the frequency of WANO peer reviews is now almost too high to allow for additional OSART missions. Is there any obligation, policy of or agreement about a regular OSART programme in Spain? If so, what is the frequency of the OSART missions? Also only participations in WANO missions are mentioned. Is there no OSART participation?	Withdrawn
53 Netherlands	Article 10	WANO/OSART	There seem to be only WANO peer reviews in Spain. It is known that the frequency of WANO peer reviews is now almost too high to allow for additional OSART missions. Is there any obligation, policy of or agreement about a regular OSART programme in Spain? If so, what is the frequency of the OSART missions? Also only participations in WANO missions are mentioned. Is there no OSART participation?	Answered
54 United States of America	Article 10	10.1	The last OSART mission was conducted at Vandellos in 2009, and a follow-up mission was completed in 2011. Are any other OSART missions planned for other NPPs in the near future?	Answered
55 Germany	Article 11	p. 49/ch. 11.1	Could Spain provide information on the financial resources for the decommissioning of the nuclear facilities?	Answered
56 Netherlands	Article 11	art. 11	How does the regulatory body assess the sufficiency of human and financial resources at the nuclear installations?	Answered
57 Russian Federation	Article 11.1	p. 49	How adequacy of funding are estimated: - on ensuring (increase) nuclear, radiation, fire and technical safety, change of the regulating documentation, including taking into account accident lessons on the NPP "Fukushima-Dayichi"; - on ensuring nuclear material physical protection, control and accounting ; - on ensuring the decommissioning of NPP ; - on ensuring for NPP development; - on the treatment of spent nuclear fuel and radioactive waste?	Answered
58 India	Article 11.2	Section 11.2, Page 50	Does CSN play an active role in the assessment and licensing of control room personnel?	Answered
59 Brazil	Article 12	12.1	Is there a specific regulatory guide for the area of human factors engineering and human machine interface?	Answered
60 Brazil	Article 12	12.3	Is there any simulator that helps in the studies on human	Answered

			factors engineering and human machine interface? If it exists, does this simulator deal with severe accidents?	
61 Brazil	Article 12	12.5	Are post Fukushima actions considered on the standard relating to human factors engineering and human machine interface?	Answered
62 Canada	Article 12	p.53, section 12.1	The 2011 IRRS report for Spain recommended that "The plans to enhance the organizational expertise in risk assessment, operating experience and human organization factors should be implemented with high priority." and that "CSN should consider the balance of the resources allocated to the human and organizational issues as well as the number of inspections in which these issues are addressed."	Answered
63 Canada	Article 12	p.54, section 12.3	How has the regulator addressed these concerns? "Programmes have also been established to check the fitness for duty of people working at nuclear power plants." Please describe the Fitness-for-Duty program and what is involved (e.g., drug testing, periodic psychological examinations, etc.). Are there limits to the number of hours that personnel can work to avoid human errors related to fatigue?	Answered
64 China	Article 12	12.2/P53	It is mentioned that "A general systematic approach has been established for the review of design modifications from the point of view of human factors, based also on the aforementioned documents." Question: Could you provide more detailed information about the systematic approach? Please give some examples.	Answered
72 China	Article 12	12.2/P53	It is mentioned that "A general systematic approach has been established for the review of design modifications from the point of view of human factors, based also on the aforementioned documents." Question: Could you provide more detailed information about the systematic approach? Please give some examples.	Withdrawn
65 France	Article 12	§ 12.4, 55	Spain mentions the implementation of programs to strengthen the safety culture and the organization and human factors programs. Could Spain provide information on how the safety authority makes sure that the licensee evaluates correctly the efficiency of these programs?	Answered
66 France	Article 12	§ 12.5, 56	Spain mentions that "The periodic performance of internal	Answered

			and external safety culture evaluations is another source of information that allows insight to be gained into the actual status of activities at the plants? Could Spain specify on which basis is evaluated the performance of the safety culture?	
67 India	Article 12	Section 12.3, Page 54	The report states "Programmes have also been established to check the fitness for duty of people working at nuclear power plants". Can Spain provide more details on this programme?	Answered
68 Slovenia	Article 12	p. 54	Programmes have also been established to check the fitness for duty of people working at nuclear power plants. Q.: Can you explain what criteria are used to check the fitness for duty?	Answered
69 Slovenia	Article 12	p. 55	External evaluations of the safety culture are performed periodically and there is participation in international congresses... Q.: Who or what institution performs external evaluation of the safety culture? In accordance with what standards or guidelines is it performed?	Answered
70 Canada	Article 13	p.57, section 13.2	The report states that "These systems define ways to establish, implement, evaluate and continuously improve a management system integrating nuclear safety, the prevention of occupational risk, environmental protection, physical protection, quality and economic aspects, in order to guarantee that adequate consideration is given to nuclear safety in all the activities of the organisation." What are some of the economic aspects that are reviewed in order to guarantee nuclear safety?	Answered
71 United Arab Emirates	Article 13	58	Did the vendor audit include review of counterfeit suspect parts and if so were there any significant issues?	Answered
72 Belgium	Article 14	None	In the information provided concerning Article 14 on "Assessment and verification of safety", we did not find any reference towards a graded approach. Has the CSN any formalised method or practices to apply a graded approach in review and assessment of different projects and topics? If an approach is being used, is it supported by some decision criteria? Is it oriented towards an optimum use of manpower resources ?	Answered

73 Germany	Article 14	p. 67/ch. 14.1.5	What are the reasons for the delay of the implementation of the post-Fukushima requirements?	Answered
74 United Arab Emirates	Article 14	78	Complementary Technical Instruction No 5.c please provide more information on the modifications?	Answered
75 United States of America	Article 14	14.1.2	Santa María de Garoña NPP was placed in definitive shutdown on July 5, 2013; however, on May 27, 2014, the licensee requested renewal of its operating permit. The CSN is currently reviewing the request for renewal. Given that this is a unique situation, is the CSN experiencing any challenges or difficulties with this review?	Answered
76 Canada	Article 14.1	14.1.5, p.68	One of the improvements from the Fukushima Action Plan was to install Filtered Containment Vents at all NPPs. Asco I and II have completed the first phase of this improvement and expect to completed phase two by the end of 2016. Challenge: It is noted that the Almaraz, Confrentes, Trillo, and Vandellos II plants have not yet submitted their requests for authorization of this modification and are expected to do so during 2016. Has CSN received requests for authorization for this modification from the above NPPs during 2016 and since the publication of the 7th National Report of Spain?	Answered
77 Czech Republic	Article 14.1	14.1.3/p. 66	Is CSN involved in the approval process of PSR methodology established by the licensee?	Answered
78 Czech Republic	Article 14.1	14.1.3/p. 66	What is the mode of reporting PSR results to the regulatory body?	Answered
79 Czech Republic	Article 14.1	14.1.3/p. 66	The scope of PSR established by CSN GS-1.10 differs from IAEA NS-G-2.10. Is there a intent in Spain to adopt an IAEA approach in CSN document?	Answered
80 Finland	Article 14.1	Chapter 14.3	It is mentioned that safety guide GS 1.10 is currently under revision for adaption to the IAEA's guideline SSG-25 "Periodic Safety Review for Nuclear Power Plants". At this point, has CSN identified some new issues or areas that has not been included in the PSR process formerly?	Answered
81 France	Article 14.1	§ 14.1.2, 63	Regarding probabilistic safety analysis (PSA), can Spain precise which internal and external events and which modes of plant operation are taken into account? What is their main objective (probabilistic goals)? What are the design modifications deriving from the last PSA? Is there a spent fuel pool PSA?	Answered

82 India	Article 14.1	Section 14.1.5, Page 68	The report states “the objective of the CAGE building is to constitute a safe place from which to manage emergencies in beyond design basis accident scenarios, to contain all the equipment required to cover basic needs regarding light, air, water and food autonomously during the accident and to make available areas for management of the emergency and coordination of work, medical services, radiological control and dosimetry, decontamination area, communications, etc..” Can Spain provide more details on the design features of CAGE building, particularly with respect to design bases and margins with respect to external hazards? Also can Spain give more information on the envisaged time period for which this facility would be able to sustain on its own without outside assistance?	Answered
83 Portugal	Article 14.1	62	What percentage of your NPP's already have a containment venting-filtration system installed.	Answered
84 Portugal	Article 14.1	64	When will the installation of the containment venting-filtration system be finalized in Almaraz? Will you install also passive autocatalytic recombiners (PAR) in containment at Almaraz?	Answered
85 Russian Federation	Article 14.1	p. 61	Does CSN engage any other institutions to assess operational safety of units in service; if “Yes”, is such assessment independent of the safety analysis performed by NPP operator?	Answered
86 Russian Federation	Article 14.2	para 14.2.5, p. 72	From the text of the main conclusions of the evaluation of NPP operating in Spain it is clear that in assessing the indicators used by the color display. Could you describe the performance evaluation methodology? How many indicators are used for assessment of operation of NPP? What are the selection criteria of these indicators? Was the international experience used in developing this indicator system (IAEA, WANO)?	Answered
87 Russian Federation	Article 14.2	p. 61	Could you please give results of probabilistic safety analyses (quantitative risk assessment).	Answered
88 Belgium	Article 15	p 88, section 15.2	The report advances : “Suitable means shall be set up to inform, train and motivate all the plant workers on compliance with the ALARA principle.”. Could Spain give examples of those means and how they are evaluated (KPI ?) ?	Answered

89 Belgium	Article 15	p 88, section 15.3	The report states that for the public : “Under special circumstances the Nuclear Safety Council may authorise a higher effective dose value in a single official year, as long as the average over five official consecutive years does not exceed 1 mSv per official year.” Does this exception have already been authorised and what are the Nuclear Safety Council’s criteria to allow such regime ?	Answered
90 Belgium	Article 15	p 90, section 15.3	The report explains that “ The effective doses calculated for the most exposed member of the public is calculated considering “highly conservative hypotheses”” . Could Spain develop what are those hypotheses ?	Answered
91 Belgium	Article 15	p 93, appendix A	As regards to the collective doses in 2015, the NPP of Cofrentes is clearly above all others. Could Spain develop the reasons behind this singularity.	Answered
92 Belgium	Article 15	p 93, appendix A	The dosimetry of the workers is explained in man.Sv only. Without more information (for example max. individual dose or average dose with standard deviation or number of workers, ...), this unit alone does not allow to draw any conclusions on the performance of the Licensee on the radioprotection. Could Spain provide those complementary values ?	Answered
93 Canada	Article 15	p.88	Taking into consideration the recent ICRP recommendations to reduce the dose limit to the lens of the eye, how and when is Spain planning to adopt the more restrictive limits?	Answered
94 Russian Federation	Article 15	Article 15, p. 87	What system is used to store occupational exposure data for personnel, secure data confidentiality, and transfer individual data when members of personnel change their place of work (or employer)?	Answered
95 Canada	Article 16	p.109	Have the updates to radiological consequence calculation codes been completed, as was identified as a challenge from the 6th review meeting?	Answered
96 United States of America	Article 16	16.1.6	The U.S. applauds the efforts of CSN in its conduct of the CURIEX-2013 drill at Almaraz. One of the notable lessons learned was the need to prepare reception areas in adequate, previously determined places in proximity to the potentially affected areas. What measures are planned to address this lesson learned?	Answered
97 India	Article 16.1	Section 16.1.1, Page 103	The report mentions of the following improvements in the Spanish NPPs, as part of the Post-Fukushima Complementary Technical Instructions. • "New Emergency Support Centre (CAE), in operation since	Answered

early 2014".

- "Alternative Emergency Management Centres (CAGE), to be operative at the sites by late 2016".

In this regard, can Spain provide features of these two different Emergency Management Centres?

Whether any guidance document has been brought out by CSN in respect of design of New Emergency Support Centre and Alternative Emergency Management Centres (CAGE)?

98 United States of America	Article 18	18.2	With the discontinuation of German nuclear power and the shutdown of the plants, how does CSN envision the continuation of technological improvements and consideration of operating experience for the Trillo NPP?	Answered
99 France	Article 18.1	§ 18.1.4, 123	In case of total loss of electrical power of the entire site, how long does it take to connect mobile emergency diesel to reactors? How is mobile equipment protected from extreme aggression?	Answered
100 Slovenia	Article 18.2	p. 130	Finally, the plants have addressed the analysis of the cybersecurity requirements and technical solutions to be applied for digital systems. Q.: Can you describe the main cybersecurity measures that are (to be) applied in Spanish NPPs?	Answered
101 Belgium	Article 19	Art. 19.9 Vienna Declaration, pag. 175	Regulator's Safety Culture: "The CSN has undertaken to implement the basic principles of the safety culture within the organisation and to provide suitable tools for its development at all levels. A working group has been set up for the above". Could CSN describe in more details the methodology followed (Surveys / Questionnaires, Interviews, Observations, Document review, Focus Groups, etc.) and/or the first results of the working group assesment.	Answered
102 France	Article 19.7	§ 19.7, 149 to 155	Could Spain present with more details the system of operating experience feedback in particular tools and databases developed from technical exchanges with IAEA and others countries, such as safety performance indicators set, trends of events?	Answered