

**RESPONSE TO FREEDOM OF
INFORMATION ACT (FOIA) / PRIVACY
ACT (PA) REQUEST**

2013-0139

2

RESPONSE
TYPE☐ FINAL☒ PARTIAL

REQUESTER

Paul Gunter

DATE

OCT 25 2013

PART I. -- INFORMATION RELEASED

- ☐ No additional agency records subject to the request have been located.
- ☐ Requested records are available through another public distribution program. See Comments section.
- ☐ **APPENDICES**
Agency records subject to the request that are identified in the listed appendices are already available for public inspection and copying at the NRC Public Document Room.
- ☒ **APPENDICES**
D, E, F Agency records subject to the request that are identified in the listed appendices are being made available for public inspection and copying at the NRC Public Document Room.
- ☒ Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 11555 Rockville Pike, Rockville, MD 20852-2738.
- ☒ **APPENDICES**
D, E Agency records subject to the request are enclosed.
- ☐ Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- ☒ We are continuing to process your request.
- ☒ See Comments.

PART I.A -- FEES

AMOUNT*

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* See comments
for details

- ☐ You will be billed by NRC for the amount listed. ☐ None. Minimum fee threshold not met.
- ☐ You will receive a refund for the amount listed. ☐ Fees waived.

PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

- ☐ No agency records subject to the request have been located. For your information, Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA. See 5 U.S.C. § 552(c) (2006 & Supp. IV (2010)). This response is limited to those records that are subject to the requirements of the FOIA. This is a standard notification that is given to all our requesters and should not be taken as an indication that excluded records do, or do not, exist.
- ☒ Certain information in the requested records is being withheld from disclosure pursuant to the exemptions described in and for the reasons stated in Part II.
- ☒ This determination may be appealed within 30 days by writing to the FOIA/PA Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Clearly state on the envelope and in the letter that it is a "FOIA/PA Appeal."

PART I.C COMMENTS (Use attached Comments continuation page if required)

The incoming request located in ADAMS at ML13050A059.

Records with a ML Accession Number are publicly available in the NRC's Public Electronic Reading Room at <http://www.nrc.gov/reading-rm.html>. If you need assistance in obtaining these records, please contact the NRC's Public Document Room (PDR) at 301-415-4737, or 1-800-397-4209, or by E-mail to PDR.Resource@nrc.gov.

There are two referrals still outstanding, you will be notified once these referrals have returned.

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

Donna L. Sealing

**RESPONSE TO FREEDOM OF INFORMATION
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PART II.A -- APPLICABLE EXEMPTIONSAPPENDICES
E, F

Records subject to the request that are described in the enclosed Appendices are being withheld in their entirety or in part under the Exemption No.(s) of the PA and/or the FOIA as indicated below (5 U.S.C. 552a and/or 5 U.S.C. 552(b)).

- ☐ Exemption 1: The withheld information is properly classified pursuant to Executive Order 12958.
- ☐ Exemption 2: The withheld information relates solely to the internal personnel rules and practices of NRC.
- ☐ Exemption 3: The withheld information is specifically exempted from public disclosure by statute indicated.
- ☐ Sections 141-145 of the Atomic Energy Act, which prohibits the disclosure of Restricted Data or Formerly Restricted Data (42 U.S.C. 2161-2165).
- ☐ Section 147 of the Atomic Energy Act, which prohibits the disclosure of Unclassified Safeguards Information (42 U.S.C. 2167).
- ☐ 41 U.S.C., Section 4702(b), prohibits the disclosure of contractor proposals in the possession and control of an executive agency to any person under section 552 of Title 5, U.S.C. (the FOIA), except when incorporated into the contract between the agency and the submitter of the proposal.
- ☒ Exemption 4: The withheld information is a trade secret or commercial or financial information that is being withheld for the reason(s) indicated.
- ☐ The information is considered to be confidential business (proprietary) information.
- ☐ The information is considered to be proprietary because it concerns a licensee's or applicant's physical protection or material control and accounting program for special nuclear material pursuant to 10 CFR 2.390(d)(1).
- ☒ The information was submitted by a foreign source and received in confidence pursuant to 10 CFR 2.390(d)(2).
- ☐ Disclosure will harm an identifiable private or governmental interest.
- ☒ Exemption 5: The withheld information consists of interagency or intraagency records that are not available through discovery during litigation. Applicable privileges:
- ☒ Deliberative process: Disclosure of predecisional information would tend to inhibit the open and frank exchange of ideas essential to the deliberative process. Where records are withheld in their entirety, the facts are inextricably intertwined with the predecisional information. There also are no reasonably segregable factual portions because the release of the facts would permit an indirect inquiry into the predecisional process of the agency.
- ☒ Attorney work-product privilege. (Documents prepared by an attorney in contemplation of litigation)
- ☐ Attorney-client privilege. (Confidential communications between an attorney and his/her client)
- ☒ Exemption 6: The withheld information is exempted from public disclosure because its disclosure would result in a clearly unwarranted invasion of personal privacy.
- ☒ Exemption 7: The withheld information consists of records compiled for law enforcement purposes and is being withheld for the reason(s) indicated.
- ☐ (A) Disclosure could reasonably be expected to interfere with an enforcement proceeding (e.g., it would reveal the scope, direction, and focus of enforcement efforts, and thus could possibly allow recipients to take action to shield potential wrong doing or a violation of NRC requirements from investigators).
- ☐ (C) Disclosure could constitute an unwarranted invasion of personal privacy.
- ☒ (D) The information consists of names of individuals and other information the disclosure of which could reasonably be expected to reveal identities of confidential sources.
- ☐ (E) Disclosure would reveal techniques and procedures for law enforcement investigations or prosecutions, or guidelines that could reasonably be expected to risk circumvention of the law.
- ☐ (F) Disclosure could reasonably be expected to endanger the life or physical safety of an individual.
- ☒ OTHER (Specify)
- Copy Right Material; Outside the Scope

PART II.B -- DENYING OFFICIALS

Pursuant to 10 CFR 9.25(g), 9.25(h), and/or 9.65(b) of the U.S. Nuclear Regulatory Commission regulations, it has been determined that the information withheld is exempt from production or disclosure, and that its production or disclosure is contrary to the public interest. The person responsible for the denial are those officials identified below as denying officials and the FOIA/PA Officer for any denials that may be appealed to the Executive Director for Operations (EDO).

DENYING OFFICIAL	TITLE/OFFICE	RECORDS DENIED	APPELLATE OFFICIAL		
			EDO	SECY	IG
Eric J. Leeds	Director, NRR		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Appeal must be made in writing within 30 days of receipt of this response. Appeals should be mailed to the FOIA/Privacy Act Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, for action by the appropriate appellate official(s). You should clearly state on the envelope and letter that it is a "FOIA/PA Appeal."

APPENDIX D
RECORDS BEING RELEASED IN THEIR ENTIRETY
(If copyrighted identify with *)

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
1.	08/17/12	Email T. Hipschman to J. Zimmerman et al., FW: Update on Doel-3 issue (1 page)
2.	10/23/12	Email T. Lupold to J. Trapp, RE: Vessel Flaws (1 page)
3.	10/25/12	Email P. Wilson to J. Trapp, FW: (1 page)
4.	11/06/12	Email M. Deprez to A. Weyn et al., Subj: WG2 – English translation of Areva document (1 page)
5.	11/08/12	Email J. Poehler to R. Hardies, RE: the Doel 3 indications presentations for ET LT (1 page)
6.	11/09/12	Email C. Fairbanks to J. Poehler, RE: Slides for Doel Briefing next Tuesday (1 page)
7.	11/13/12	Email M. Kirk to T. Pope et al., Subj: Foreign Travel Request: Belgium. December 15-19 (concerning Doel) (1 page)
8.	11/14/12	Email B. Tombuyses to P. Ekstrom et al., RE: Doel 3 & Tihange 2 RPV issue – October 16 th meeting – WG2 (2 pages)
9.	11/15/12	Email M. Modes to J. Trapp, RE: (2 pages)
10.	11/16/12	Email F. Van Wonterghem to A. Thibault et al., RE: Doel 3 & Tihange RPV issue – New Licensee documents (3 pages)
11.	11/16/12	Email B. Tombuyses to P. Ekstrom et al., RE: Doel 3 & Tihange RPV issue – October 16 th meeting – WG2 (2 pages)
12.	11/16/12	Email F. Van Wonterghem to A. Thibault et al., Subj: Doel 3 & Tihange RPV issue – Comments and questions for WG1 (2 pages)
13.	11/20/12	Email J. Poehler to C. Fairbanks, RE: Monthly meeting with Dan (3 pages)
14.	12/03/12	Email J. Poehler to S. Rosenberg, RE: Accomplishments, Accomplishments!!! (2 pages)
15.	12/05/12	Email P. Hiland to D. Dorman et al., with Enclosure, Subj: Doel-3 Meeting (3 pages)

16. 12/06/12 Email C. Nove to G. Stevens et al., FW: Doel 3 – Tihange 2 RPV issue: Safety Case Reports (3 pages)
17. 12/10/12 Email S. Rosenberg to J. Poehler, RE: Communicating up (1 page)
18. 12/20/12 Email A. Artayet to D. Harmon et al., FW: Doel-3 (1 page)
19. 01/2013 Doel 3 – Tihange 2 RPV Issue International Expert Review Board Final Report (18 pages)
20. 01/04/13 Email T. Wells to R. Hardies, RE: Doel 3 PFM Analyses (1 page)
21. 01/06/13 Email C. Nove to F. VanWanterghem, et al., Subj: Doel 3 – Tihange 2 RPV issue – feedback on WG1 reports. (1 page)
22. 01/07/13 Email R. Dyle to R. Hardies, FW: Experts Okay Restart of Worrisome Belgian Nuclear Plants (2 pages)
23. 01/11/13 Email T. Nazario to A. Issa, RE; Emailing: PER 647214 Latent error in stress analysis for rx vessel core suppt block (4 pages)
24. 01/11/13 Email T. Lupold to R. Hardies et al., Subj: Regulatory Information Conference (RIC) 2013 – Planning Information (3 pages)
25. 01/11/13 Email A. Csontos to M. Kirk et al., RE: Post Belgium Mike/Stu Briefing (1 page)
26. 01/14/13 Email G. Roussel to R. Hardies et al., Subj: Doel 3 and Tihange 2 RPV issue (1 page)
27. 01/14/13 Email C. Latiolais to C. Nove, Subj: Doel (1 page)
28. 01/15/13 FANC Press Release, Subj: Doel 3 and Tihange 2: the FANC requests more information from Electrabel (1 page)
29. 01/15/13 Email M. Kirk to M. Kirk, et al., Subj: Belgians are cautiously positive on Doel 3 and Tihange 2. (1page)
30. 01/16/13 Email A. Issa to T., Le et al., RE; Emailing: PER 647214 Latent error in stress analysis for rx vessel core suppt block (5 pages)
31. 01/17/13 Email D. Harmon to S. Freeman et al., RE: Belgians are cautiously positive on Doel 3 and Tihange 2 (3 pages)
32. 01/29/13 Email G. Roussel to R. Hardies et al., Subj: Doel 3 – Tihange 2 RPV issue (1 page)
33. 01/30/13 FANC Report: Doel 3 and Tihange 2 Reactor Pressure Vessels – Provisional Evaluation Report (63 pages)
34. 02/01/13 Email F. Van Wanterghem to A. Thibault et al., Subj: Doel 3 & Tihange RPV issue – FANC Provisional Evaluation Report (3 pages)

- 35. 02/01/13 FANC: Flaw indications in the reactor pressure vessels of Doel 3 and Tihange 2 – Technical Information Note (5 pages)
- 36. 02/2013 NRC Report Draft, Los Angeles, CA., (20 pages)
- 37. 02/06/13 Email G. Roussel to R. Hardies et al., Subj: Doel 3 – Tihange 2 RPV issue (1 page)
- 38. 02/06/13 Email T. Lupold to W. Norris, FW: First draft of report (1 page)
- 39. 02/2013 NRC Report (19 pages)
- 40. 02/07/13 Email J. Creemers to A. Wertelaers et al., RE: Doel 3 & Tihange RPV: FANC Provisional Evaluation Report (3 pages)
- 41. 02/12/13 Email C. Fairbanks to J. Poehler, RE: Doel 3 – Tihange 2 RPV: FANC Provisional Evaluation Report (3 pages)
- 42. 02/14/13 Email S. Min to C. Fairbanks et al., Subj: Preliminary Comments on the Quasi-laminar Indications (1 page)
- 43. 02/19/13 Email G. Stevens to W. Bamford et al., Subj: SGES November Meeting Minutes (32 pages)
- 44. 03/11/13 Email J. McGhee to C. Phillips, FW: Doel 3 Tihange 2 RPV flaws (1 page)

**APPENDIX E
RECORDS BEING WITHHELD IN PART**

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/ (PAGE COUNT)/EXEMPTIONS</u>
1.	11/02/12	Email J. Poehler to T. Griesbach et al., FW: Re-Revision of NRC report. (1 page) EX 6
2.	11/06/12	Email G. Stevens to R. Hardies et al., FW: Doel 3 – Tihange 2 RPV issue. 3 pages) EX 6, OS
3.	11/06/12	Email G. Stevens to G. Roussel, et al., RE: Doel 3 – Tihange 2 RPV issue. (4 pages) EX 6, OS
4.	11/07/12	Email G. Roussel to G. Stevens, RE: Doel 3 – Tihange 2 RPV issue. (2 pages) EX 4, 7D
5.	11/07/12	Email G. Stevens to R. Tregoin et al., FW: Doel 3 – Tihange 2 RPV issue. (5 pages) EX 4, 6, 7D
6.	11/08/12	Email R. Hardies, NRR to J. Poehler, NRR RE: the Doel 3 indications presentations for ET LT. (1 page) EX 6
7.	11/08/12	Email G. Stevens to R. Hardies, FW: Request for PTS time histories. (1 page) EX 6
8.	11/09/12	Email J. Poehler to S. Rosenberg et al., RE: Doel 3 Update. (2 pages) EX 6
9.	11/09/12	Email J. Poehler to S. Rosenberg et al., RE: Doel 3 Update. (2 pages) EX 6
10.	11/12/12	Email G. Stevens to R. Tregoin, Subj: ASME Code Meeting Report – Subgroup on Evaluation Standards. (8 pages) EX 6
11.	11/13/12	Email P. Hiland, NRR to R. Hardies, NRR RE: RESPONSE – Trip report for travel to Brussel, Belgium October 13-18, 2012, to discuss indications at Doel 3. (2 pages) EX 6
12.	11/13/12	Meeting Slides on Indications in Reactor Pressure Vessel Forgings NRR/DE Management Briefing. (11 pages) EX 4, 7D
13.	11/13/12	Email L. Streibig, ASN to R. Hardies, NRR RE: BMI penetration degradation in France. (2 pages) EX 6
14.	11/14/12	Email D. Merzke, EDO to R. Hardies, NRR RE: RESPONSE – Trip report for travel to Brussels, Belgium October 13-18, 2012, to

discuss indications at Doel-3. (3 pages) **EX 6**

15. 11/14/12 Email from B. Tombuyses, FANC to P. Ekstrom, et al., on Doel 3 & Tihange 2 RPV Issue – October 16th meeting – WG2. (14 pages) **EX 4, 7D**
16. 11/14/12 Email G. Stevens to C. Nove et al., RE: Doel 3 & Tihange 2 RPV issue – October 16th meeting – WG1: Non-Destructive Examination Techniques Meeting Report. (2 pages) **EX 4, 6, 7D**
17. 11/14/12 Email G. Stevens to C. Nove et al., RE: Doel 3 NDE info and WG# info. (1 page) **EX 6**
18. 11/15/12 Email G. Stevens, RES to R. Hardies, NRR RE: Talking Point for Leeds on Doel for ASN.docx. (1 page) **EX 6**
19. 11/15/12 Email P. Hiland, NRR to R. Hardies, NRR RE: Talking Point for Leeds on Doel for ASN.docx. (4 pages) **EX 4, 6, 7D**
20. 11/15/12 Email G. Stevens to C. Nove et al., RE: Meeting with Guy Roussel (Bel V) to discuss RPV issues. (2 pages) **EX 6**
21. 11/19/12 Email G. Stevens to A. Csontos et al., Subj: Bel V Meeting Summary. (4 pages) **EX 4, 7D**
22. 11/20/12 Email S. Rosenberg to C. Fairbanks et al., FW: Doel 3 Update. (3 pages) **EX 6**
23. 11/26/12 Email J. Hopkins, NRR to R. Hardies, NRR FW: MDEP – CSWG – 10th meeting draft summary record – Information on Doel event. (7 pages) **EX 4, 7D**
24. 11/30/12 Email G. Roussel to G. Stevens et al., Subj: Doel 3 – Tihange 2 RPV issue – WG3 – justification file. (13 pages) **EX 4, 6, 7D**
25. 11/30/12 Email G. Stevens to M. Kirk et al., FW: Minutes of the meeting of October 16th, 2012. (2 pages) **EX 4, 6, 7D**
26. 11/30/12 Email M. Kirk to G. Stevens et al., Subj: Very Informal Belgium Trip Report. (3 pages) **EX 4, 7D**
27. 11/30/12 Email G. Stevens to M. Kirk et al., FW: Doel 3 – Tihange 2 RPV issue – WG3 – justification file. (2 pages) **EX 4, 6, 7D**
28. 12/03/12 Email J. Poehler, NRR to G. Stevens, RES RE: Doel 3 – Tihange 2 RPV issue – WG3 – justification file. (3 pages) **EX 6**
29. 12/04/12 Email M. Dennis, EPRI to C. Nove, RES et al., RE: Public Meeting Schedule Regarding the Recent Doel 3 OE. (1 page) **EX 6**

30. 12/05/12 Email R. Dyle, EPRI to R. Hardies, NRR FW: Doel 3 follow-up. (1 page) **EX 6**
31. 12/05/12 Email F. Van Wonterghem, FANC to A. Thibault, ASN et al., on Doel 3 – Tihange 2 RPV issue; Licensee documents & next meeting 8&9 January 2013. (5 pages) **EX 4, 7D**
32. 12/05/12 Email S. Rosenberg, NRR to C. Fairbanks et al., NRR RE: Bilateral with France. (4 pages) **EX 6**
33. 12/05/12 Email C. Fairbanks, NRR to S. Rosenberg et al., NRR RE: Bilateral with France. (4 pages) **EX 6**
34. 12/05/12 Email R. Dyle, EPRI to R. Hardies, NRR RE: postponing Jan 8 Doel meeting. (1 page) **EX 6**
35. 12/05/12 Email C. Nove, RES to R. Hardies, NRR Re: Final FANC meeting Jan8-9, postponing public meeting Jan 8. (2 pages) **EX 6**
36. 12/05/12 Email M. Kirk to J. Poehler et al., RE: Doel 3 – Tihange 2 RPV issue: Licensee documents & Next Meeting: 8&9 January 2013. (3 pages) **EX 6**
37. 12/05/12 Email C. Nove to G. Stevens et al., RE: Doel 3-Tihange 2 RPV issue – WG3. (3 pages) **EX 4, 6, 7D**
38. 12/05/12 Email A. Csontos to J. Poehler et al., RE: Doel 3 – Tihange 2 RPV issue: Licensee documents & Next Meeting: 8&9 January 2013. (3 pages) **EX 4, 5, 6, 7D**
39. 12/05/12 Email A. Csontos to M. Kirk et al., RE: Doel 3 – Tihange 2 RPV issue: Licensee documents & Next Meeting: 8&9 January 2013. (5 pages) **EX 4, 6, 7D**
40. 12/06/12 Email M. Kirk to J. Ramsey et al., Subj: 1 more meeting requested concerning Doel. (2 pages) **EX 4, 7D**
41. 12/11/12 Email G. Stevens, RES to R. Hardies, NRR et al., RE: Doel 3 – Tihange 2 RPV issue – WG3 – justification file. (2 pages) **EX 6**
42. 12/17/12 Email G. Stevens, RES to R. Hardies, NRR et al., FW: Doel 3 – Tihange 2 RPV issue – WG3 – justification file. (7 pages) **EX 4, 6, 7D**
43. 12/17/12 Email G. Stevens to N. Dasseville et al., RE: Doel 3 – Tihange 2 RPV issue: Licensee documents & Next Meeting: 8&9 January 2013. (2 pages) **EX 4, 6, 7D**

44. 12/17/12 Email A. Csontos to S. Rosenberg et al., Subj: RES Doel Work & PTS RG NUREG Tech Basis. (1 page) **EX 5, 6**
45. 12/18/12 Email G. Stevens to G. Roussel et al., RE: Doel 3 – Tihange 2 RPV issue: Licensee documents & Next Meeting: 8&9 January 2013. (3 pages) **EX 4, 6, 7D**
46. 12/18/12 Email J. Poehler, NRR to R. Hardies, NRR et al., RE: Doel 3 – Tihange 2 RPV issue – WG3 – justification file. (4 pages) **EX 4, 6, 7D**
47. 12/18/12 Email J. Poehler, NRR to B. Tombuyses, FANC et al., RE: Doel 3 & Tihange 2 RPV issue – WG2 – Laborelec notes. (4 pages) **EX 4, 7D**
48. 12/18/12 Email J. Poehler, NRR to B. Tombuyses, FANC et al., RE: Doel 3 & Tihange 2 RPV issue – WG2 – Laborelec notes. (3 pages) **EX 4, 7D**
49. 12/18/12 Email M. Kirk to A. Csontos et al., Subj: Information from Belgium re Doel. (2 pages) **EX 4, 6, 7D**
50. 12/19/12 Email J. Poehler, NRR to B. Tombuyses, FANC., RE: Doel 3 & Tihange 2 RPV issue – WG2 – Laborelec notes. (4 pages) **EX 4, 7D**
51. 12/19/12 Email R. Hardies, NRR to C. Nove, RES et al., FW; Chairman briefing on Doel 3. (2 pages) **EX 4, 6, 7D**
52. 12/20/12 Email C. Nove, RES to R. Hardies, NRR et al., RE: your per-trip notification. (2 pages) **EX 6**
53. 12/20/12 Email R. Hardies, NRR to G. Stevens, RES et al., RE: Doel 3 plans and proposed actions. (3 pages) **EX 4, 6, 7D**
54. 12/20/12 Email C. Nove, RES to R. Hardies, NRR RE: Doel 3 plans and proposed actions. (2 pages) **EX 4, 6, 7D**
55. 12/20/12 Email J. Poehler, NRR to G. Stevens, RES RE: Doel 3 plans and proposed actions. (3 pages) **EX 4, 6, 7D**
56. 12/20/12 Email R. Hardies to C. Fairbanks et al., Subj: Doel 3 plans and proposed actions with Enclosures. (22 pages) **EX 4, 6, 7D**
57. 12/20/12 Email A. Csontos to R. Hardies, RE: Doel 3 plans and proposed actions. (3 pages) **EX 4, 5, 6, 7D**
58. 12/20/12 Email A. Csontos to R. Hardies, RE: Doel 3 plans and proposed actions. (2 pages) **EX 4, 6, 7D**

59. 12/20/12 Email M. Kirk to R. Hardies, RE: Doel 3 plans and proposed actions. (3 pages) **EX 4, 6, 7D**
60. 12/21/12 Email B. Brickstad, SSM to G. Roussel, Belgium et al., on My comments and questions on the safety case of defects in Doel -3. (3 pages) **EX 4, 6, 7D**
61. 12/21/12 Email A. Csontos to M. Case, et al., RE: Carol Doel Trip. (1 page) **EX 6**
62. 12/21/12 Email G. Stevens to J. Poehler, RE: My comments and questions on the safety case of defects in Doel-3. (3 pages) **EX 4, 5, 6, 7D**
63. 12/29/12 Email Kanno-Masanori, JNES to B. Tombuyes, FANC et al., on Comments to Safety Case Report of Doel 3 RPV Issue. (4 pages) **EX 4, 7D**
64. 01/02/13 Email F. Van Wonterghem, FANC to A. Thibault, ASN et al., on Doel 3 – Tihange 2 RPV Issue: Detailed agenda for meeting of 8&9 January 2013. (3 pages) **EX 4, 7D**
65. 01/02/13 Email G. Stevens to L. Lindhorst, RE: My comments and questions on the safety case of defects in Doel-3. (7 pages) **EX 4, 6, 7D**
66. 01/02/13 Email G. Stevens to A. Csontos et al., FW: My comments and questions on the safety case of defects in Doel-3. (7 pages) **EX 4, 6, 7D**
67. 01/03/13 Email A. Csontos to C. Nove et al., RE: Development of NRC Staff Consensus Approach following Doel/Tihange Discoveries. (5 pages) **EX 4, 5, 6, 7D**
68. 01/03/13 Email M. Kirk to R. Hardies RE: Suggested agenda for NRC Staff meeting on Doel, 11 or 14 January. (5 pages) **EX 4, 6, 7D**
69. 01/04/13 Email H. Kunio, JNES to B. Brickstad, Belgium et al., RE: My comments and questions on the safety case of defects in Doel 3. (3 pages) **EX 4, 6, 7D**
70. 01/04/13 Email F. Van Wonterghem to R. Hardies, RE: Doel 3 – Tihange 2 RPV issue: Meeting of 8&9 January 2013: Change of Location (3 pages) **EX 6**
71. 01/04/13 Email A. Csontos to M. Case et al., FW: My comments and questions on the safety case of defects in Doel-3. (4 pages) **EX 4, 5, 6, 7D**

72. 01/04/13 Email C. Nove to M. Kirk et al., Subj: CAN Comments on NDE Reports. (8 pages) **EX 4, 7D**
73. 01/06/13 Email R. Hardies, NRR to G. Stevens, RES et al., FW: Doel 3 – Tihange 2 RPV issue – WG3 justification file. (4 pages) **EX 4, 6, 7D**
74. 01/07/13 Email G. Roussel, Belgium to R. Hardies, NRR RE: Doel 3 – Tihange 2 RPV issue – WG3 - justification file. (4 pages) **EX 4, 6, 7D**
75. 01/07/13 Email M. Sotelino, State to R. Hardies, NRR RE: Visit to Brussels Jan 7-10. (4 pages) **EX 6**
76. 01/07/13 Email S. Crombez, ASN to R. Hardies, NRR RE: Doel 3 – Tihange 2 RPV issue – WG3 - justification file. (5 pages) **EX 4, 6, 7D**
77. 01/07/13 Email G. Stevens to K. Hasegawa et al., RE: My comments and questions on the safety case of defects in Doel-3. (4 pages) **EX 4, 6, 7D**
78. 01/07/13 Email J. Poehler to P. Hiland, RE: Action Plan on Doel. (2 pages) **EX 5 & 6**
79. 01/07/13 Email J. Poehler to C. Nove, RE: CAN Comments on NDE Reports. (1 page) **EX 4, 7D**
80. 01/08/13 Email N. Sanfilippo to R. Hardies, RE: Doel. (1 page) **EX 6**
81. 01/09/13 Email C. Fairbanks, NRR to M. Kirk, RES et al., RE: Development of NRC Staff Consensus Approach following Doel/Tihange Discoveries. (3 pages) **EX 4, 6, 7D**
82. 01/11/13 Email C. Nove to S. Richards et al., FW: Brief summary of the discussions with FANC this week to discuss Doel. (2 pages) **EX 4, 7D**
83. 01/11/13 Email M. Kirk to R. Hardies et al., RE: Brief summary of the discussions with FANC this week to discuss Doel. (2 pages) **EX 4, 6, 7D**
84. 01/11/13 Email M. Kirk to M. Kirk et al., RE: Development of NRC Staff Consensus Approach following Doel/Tihange Discoveries. (5 pages) **EX 4, 6, 7D**
85. 01/13/13 Email T. Griesbach to D. Lamond et al., RE: URGENT – Need help this weekend!!!! RE: P.004315-RPV Project for Tractebel-Doel 3 Review. (4 pages) **EX 6, OS**

86. 01/13/13 Email M. Auglair to D. Lamond et al., RE: URGENT – Need help this weekend1111 RE: p.004315-RPV Project for Tractebel-Doel 3 Review. (3 pages) **EX 6, OS**
87. 01/13/13 Email T. Griesbach to D. Lamond et al., FW: URGENT – Need help this weekend1111 RE: p.004315-RPV Project for Tractebel-Doel 3 Review. (6 pages) **EX 6, OS**
88. 01/14/13 Email P. Hiland, NRR to R. Hardies, NRR FW: Brief summary of the discussions with FANC this week to discuss Doel. (2 pages) **EX 4, 7D**
89. 01/14/13 Email M. Kirk to M. Kirk et al., RE: Development of NRC Staff Consensus Approach following Doel/Tihange Discoveries. (7 pages) **EX 4, 5, 6, 7D**
90. 01/14/13 Email M. Kirk to M. Kirk et al., RE: Development of NRC Staff Consensus Approach following Doel/Tihange Discoveries. (3 pages) **EX 4, 6, 7D**
91. 01/14/13 Email G. Stevens to M. Kirk et al., RE: Development of NRC Staff Consensus Approach following Doel/Tihange Discoveries. (4 pages) **EX 4, 6, 7D**
92. 01/14/13 Email C. Nove to R. Hardies et al., Subj: C Nove summary of Jan 2013 meeting at FANC + path forward thoughts. (6 pages) **EX 4, 7D**
93. 01/14/13 Email G. Stevens to C. Nove et al., FW: Doel 3 and Tihange 2 RPV issue. (1 page) **EX 6**
94. 01/15/13 Email J. Poehler, NRR to C. Nove, RES RE: Doel 3 Sharepoint Site. (1 page) **EX 6**
95. 01/15/13 Email J. Poehler, NRR to G. Stevens, RES RE: Doel 3 Sharepoint Site. (1 page) **EX 6**
96. 01/15/13 Email L. Streibig to R. Hardies, RE: Meeting about Doel 3. (1 page) **EX 6**
97. 01/15/13 Email J. Poehler to C. Fairbanks, Subj: Sulfur and Hydrogen. (1 page) **EX 5**
98. 01/16/13 Email C. Fairbanks, NRR to J. Poehler, NRR RE: Strawman Information Request List and Screening Criteria. (1 page) **EX 5**
99. 01/16/13 Committee Correspondence on Agenda for February 12, 2013, Meeting and Minutes from November 6, 2012, Meeting. (20

pages) **EX 4, 7D**

- 100. 01/17/13 Email J. Poehler to S. Rosenberg et al., FW: WG OPC November 2012 Meeting Minutes and February 2013 Meeting Agenda. (2 pages) **EX 6**
- 101. 01/18/13 Email C. Nove, RES to R. Hardies, NRR et al., FW: Belgium trip report with Mark's comments. (4 pages) **EX 4, 6, 7D**
- 102. 01/18/13 Email M. Kirk, RES to C. Nove, RES et al., on explanation of laminar cracks en Francais. (1 page) **EX 6**
- 103. 01/18/13 Email C. Nove to A. Weyn, FW: Doel Indications. (2 pages) **EX 6**
- 104. 01/22/13 Email J. Poehler to B. Vaidya, Subj: FW NMP1 Relief Requesse SE (2 pages) **EX 6**
- 105. 01/23/13 Email M. Kirk to R. Hardies et al., Subj: Recent Doel International Review Board (IRB) activity. (14 pages) **EX 4, 6, 7D**
- 106. 01/23/13 Email R. Dyle to R. Hardies, FW: Conference call on Doel Work Being Performed by Industry – CALL-IN NUMBER ADDED. (2 pages) **EX 5, 6**
- 107. 01/28/13 Email M. Kirk, RES to C. Fairbanks, NRR et al., on March 5 public meeting. (1 page) **EX 6**
- 108. 01/29/13 Email G. Stevens to C. Nove et al., RE: Doel 3 – Tihange 2 RPV issue with enclosure. (42 pages) **EX 4, 5, 6, 7D**
- 109. 01/29/13 Email G. Stevens to M. Kirk et al., Subj: New Report from Belgium. (1 page) **EX 6**
- 110. 01/30/13 Email G. Stevens to C. Fairbanks et al., RE: Doel 3 – Tihange 2 RPV issue. (2 pages) **EX 4, 6, 7D**
- 111. 01/30/13 Email M. Kirk to C. Fairbanks et al., FW: draft QL flaw user need – sent to NRR-NRO for comment. (7 pages) **EX 4, 5, 6, 7D**
- 112. 01/30/13 Email G. Roussel to M. Kirk et al., RE: Doel 3 – Tihange 2 RPV issue. (2 pages) **EX 6**
- 113. 02/01/13 Email J. Poehler, NRR to S. Min, NRR RE: RE: Sizes of the Defect Indications (Doel 3). (1 page) **EX 4, 7D**
- 114. 02/01/13 Email M. Kirk, RES to R. Hardies, NRR Re: NRC program for h2 flaking.pptx. (1 page) **EX 6**
- 115. 02/04/13 Email J. Poehler, NRR to S. Min, NRR RE: Sizes of the Defect

Indications (Doel 3). (1 page) **EX 5**

- 116. 02/04/13 Email C. Nove to G. Stevens, R. Hardies, FW: March 5th Public Meeting on Hydrogen Flaking – Draft Meeting Announcement. (2 pages) **EX 5 & 6**
- 117. 02/05/13 Email M. Kirk to B. Yip RE: Belgium: FANC's Doel/Tihange restart requirements. (1 page) **EX 6**
- 118. 02/06/13 Email G. Stevens to G. Roussel, RE: Doel 3 – Tihange 2 RPV issue. (2 pages) **EX 4, 6, 7D**
- 119. 02/06/13 Email G. Stevens to C. Faairbanks et al., FW: Doel 3 – Tihange 2 RPV issue. (1 page) **EX 4, 6 7D**
- 120. 02/07/13 Email C. Breskovic to C. Breskovic with Enclosure, Subj: GNOSIS News 2013-02-07. (19 pages) **EX Copy Right Material**
- 121. 02/07/13 Email J. Poehler, NRR to S. Min, NRR et al., RE: Hydrogen Sources. (1 page) **EX 4, 7D**
- 122. 02/07/13 Email S. Min, NRR to J. Poehler, NRR et al., RE: Hydrogen Sources. (2 pages) **EX 4, 7D**
- 123. 02/07/13 Email M. Kirk to B. Yip et al., RE: OIP Note Dated February 6, 2013 – Belgian Federal Agency for Nuclear Control, with Enclosure. (8 pages) **EX 6**
- 124. 02/07/13 Email G. Stevens to W. Norris et al., RE: First draft of report. (1 page) **EX 6**
- 125. 02/12/13 Email K. Masanori, JNES to R. Hardies, NRR RE: On issue of Doel 3 & Tihange2 RPV. (2 pages) **EX 6**
- 126. 02/12/13 Email S. Stuchell, NRR to R. Hardies, NRR RE: Doel meeting. (3 pages) **EX 6**
- 127. 02/12/13 Email R. Dyle to M. Kirk et al., RE: Doel 3 – Tihange 2 RPV issue: FANC Provisional Evaluation Report. (5 pages) **EX 6**
- 128. 02/15/13 Email M. Kirk, RES to R. Hardies, NRR et al., Re: Quasi-laminar crack meeting next Tuesday afternoon. (2 pages) **EX 6**
- 129. 02/19/13 Email C. Fairbanks, NRR to M. Kirk, RES et al., RE: NRC Actions on Quasi-Laminar Flaws. (4 pages) **EX 6**
- 130. 02/19/13 Meeting Notice. (8 pages) **EX 4, 7D**
- 131. 02/19/13 Email G. Stevens to ASME Code Participants; RES_DE_CIB; R.

Tregoning; RES_DE_CMB, Subj: ASME Code Meeting Report – Subgroup on Evaluation Standards (7 pages) **EX 6**

- 132. 02/19/13 Email G. Stevens to C. Fairbanks et al., RE: NRC Actions on Quasi-Laminar Flaws. (4 pages) **EX 6**
- 133. 02/19/13 Email M. Kirk to C. Fairbanks et al., RE: NRC Actions on Quasi-Laminar Flaws. (3 pages) **EX 6**
- 134. 02/19/13 Email M. Kirk to C. Fairbanks et al., RE: NRC Actions on Quasi-Laminar Flaws. (1 page) **EX 6**
- 135. 04/26/13 Email N. Perry to L. Pinkham, D. Schroeder, FW: IOEB Clearinghouse Screening Summary for Thursday, August 2, 2012. (4 pages) **EX Outside the Scope**

APPENDIX F A
RECORDS BEING WITHHELD IN THEIR ENTIRETY

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/ (PAGE COUNT)/EXEMPTIONS</u>
1.	08/10/2012	Table: Reactor Pressure Vessel (RPV) of DOEL 3 and Tihange 2 summary tale of delivery of the justification five for restart (2 pages) Ex 4, 7D
2.	08/10/20112	Reactor Pressure Vessels (RPV) of Doel 3 and Tihange 2- Justification file for restart (1 page) Ex. 4, 7D
3.	11/05/2012	Note received from Willy DeRoovere, 5 th November 2012 (2pages) Ex.4, 7D
4.	11/06/2012	Electrabel GDF SVEZ: Tihange Nuclear Power Station, Operations Support Document: Short Title: Analysis of T12 Reactor Vessel Transients (27 pages) Ex. 4, 7D
5.	11/07/2012	Note received from Willy DeRoovere (2 pages) Ex.4, 7D
6.	11/07/12	Email M. Kirk to R. Hardies, et al., Subj: FANC will make Tractebel/Electrabel analysis of Doel publicly available in January 2013. (4 pages) EX. 4, 6, 7D
7.	11/12/2012	Tractebel Engineering GDF SVEZ, Subject: 1.7.5 - Reactor Pressure Vessel In-Service Inspection program (11 pages) Ex. 4, 7D
8.	11/14/2012	Email F. Van Wonterghem to A. Thibault, Subject: Doel 3 &Tihange 2 RPV Issue – October 16 th meeting –WG1: Non-Destructive Examination Techniques Meeting Report (1 page) Ex. 4, 7D
9.	11/15/2012	Tractebel Engineering GDV SVEZ, Subject: 1.4.2 –RPV KCD3 CNT2 – Validation of the capability of an ultrasonic beam to characterize laminar flows in the block (63 pages) Ex. 4, 7D
10.	11/15/2012	Tractebel Engineering GDV SVEZ, Subject: 1.1.4 – Ultrasonic examination for laminar flows – Synthesis report (22 pages) Ex. 4, 7D
11.	11/16/2012	Email F. Van Wonterghem to A. Thibault, Subject: Subject: Doel 3 & Tihange 2 RPV Issue – Comments and questions for WG1 (1 Page) Ex.4, 7D

12. 11/17/2012 Electrabel GDF SVEZ, Doel Nuclear Power Plant, Description: P0716/Transients having a potential impact on RPV at D3 (9 pages) **Ex 4, 7D**
13. 11/19/2012 Tractebel Engineering GDV SVEZ, Subject: 1.1.5 – Ultrasonic examination for laminar flows – Synthesis report (30 pages) **Ex. 4, 7D**
14. 11/20/2012 Tractebel Engineering GDV SVEZ, Subject: 1.5.1 – Evaluation of manufacturing & in-service inspection methods and results – Synthesis report (53 pages) **Ex. 4, 7D**
15. 11/23/2012 Tractebel Engineering GDV SVEZ, Subject: 4.4.2 – Calculations: RPV Doel 3:3D analysis of multiple flaw indications (39 pages) **Ex. 4, 7D**
16. 11/23/2012 Tractebel Engineering GDV SVEZ, Subject: 4.5.1 – 10CFR50.61a PTS study of the KCD3 Reactor Pressure Vessel Probabilistic approach (61 pages) **Ex. 4, 7D**
17. 11/23/2012 Tractebel Engineering GDV SVEZ, Subject: 4.5.3 – 10CFR50.61a PTS study of the Tihange 2 Reactor Pressure Vessel Probabilistic approach (62 pages) **Ex. 4, 7D**
18. 11/26/2012 Tractebel Engineering GDF SVEZ, Subject: 4.3.9 – Verification of the Cold Overpressure Protection and Pressure Temperature limits of the Does 3 Reactor Vessel (27 pages) **Ex. 4, 7D**
19. 11/27/2012 Tractebel Engineering GDF SVEZ, Subject: 4.0.1 – Calculations: RPV Doel 3-Tihange 2: Methodology for the justification of the indications in the reactor pressure vessel (16 pages) **Ex. 4, 7D**
20. 11/27/2012 Tractebel Engineering GDF SVEZ, Subject: 4.2.1 – Calculations 0 RPV Doel 3-ASME III Justification (14 pages) **Ex. 4, 7D**
21. 11/27/2012 Tractebel Engineering GDF SVEZ, Subject: 8.1.4 – Conservatisms of the Safety Case (20 pages) **Ex. 4, 7D**
22. 11/29/2012 Tractebel Engineering GDF SVEZ, Subject: 4.1.1 – Calculations: RPV Doel 3-Input data and hypotheses for the Structural Integrity Assessment of the flaws (23 pages) **Ex. 4, 7D**
23. 11/29/2012 Tractebel Engineering GDF SVEZ, Subject: 4.6.1 – Calculations: RPV Doel 3: Fatigue Crack Growth analysis (33 pages) **Ex. 4, 7D**
24. 11/29/2012 Tractebel Engineering GDF SVEZ, Subject: 4.6.2 – Calculations RPV Tihange 2: Fatigue Crack Growth Analysis (34 pages) **Ex.4, 7D**

25. 11/29/2012 Tractebel Engineering GDF SVEZ, Subject: 7.4.1 – Safety Referential: Doel – Reactor Vessel Integrity of Doel 3 (8 pages) **Ex. 4, 7D**
26. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 1.4.1 – KCD3/CNT2 RPV Inspections – Assessment of UT Inspection Sensitivity (LBE02612128) (26 pages) **Ex. 4, 7D**
27. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.1.4 – Calculations: RPV Tihange 2: Input data and hypotheses for the Structural Integrity Assessment (24 page) **Ex. 4, 7D**
28. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.2.2 – Calculations – RPV Tihange 2- ASME III justification (14 pages) **Ex. 4, 7D**
29. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.3.1 Calculations: RPV Doel 3/ Tihange 2: Groping criteria for flaw indications (62 pages) **Ex. 4, 7D**
30. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.3.2 - Calculations: RPV Doel 3: Determination of the acceptable size for the indicztions in Doel 3 reactor pressure vessel (43 pages) **Ex. 4, 7D**
31. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.3.4 - Calculations: RPV Doel 2: Determination of the acceptable size for the indications in Tihange 2 reactor pressure vessel (43 pages) **Ex. 4, 7D**
32. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.3.6 – Calculations: RPV Doel 3: Structural assessment of the indications in Doel 3 reactor pressure vessel (58 pages) **Ex. 4, 7D**
33. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.3.8 – Calcuatlions: PRV Tihange 2: Structural assessment of the indications in Tihange 2 reactor pressure vessel (37 pages) **EX 4, 7D**
34. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.7.1. – Calculations: RPV Doel 3: Synthesis of Calculations for the Integrity Assessment (34 pages) **Ex. 4, 7D**
35. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.7.2 – Calculations: RPV Doel 3: Synthesis of Calculations for the Integrity Assessment (36 pages) **Ex. 4, 7D**
36. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.7.3 – Calculations: RPV Tihange 2: Synthesis of Calculations for the Integrity Assessment (33 pages) **Ex. 4, 7D**

37. 11/30/2012 Tractebel Engineering GDF SVEZ, Subject: 4.7.4 – Calculations: RPV Tihange 2: Synthesis of Calculations for the Integrity Assessment (35 pages) **Ex. 4, 7D**
38. 11/30/2012 Email G. Roussel to A. Weyn et al., Subject: Doel 3 Tihange 2 RPV issue – WG3- justification file, (3 pages) **Ex. 4, 7D**
39. 12/05/2012 Email F. VAN WONTERGHEM to A. Thibault et al., Subject: Doel 3 – Tihange 2 RPV issue: Licensee documents & Next Meeting: 8&9 January 2013 (5 pages) **EX 4, 7D**
40. 12/05/2012 Email Guy Roussel To A. Weyn et al., Subject: Doel 3 Tihange 2 RPV issue – WG3 (1 page) **Ex. 4, 7D**
41. 12/05/2012 Electrabel GDF SVEZ, Subject: Safety Case Report Doel 3 Reactor Pressure Vessel Assessment (93 pages) **Ex. 4, 7D**
42. 12/05/2012 Electrabel GDF SVEZ, Subject: Safety Case Report Tihange 2 Reactor Pressure Vessel Assessment (93 pages) **Ex. 4, 7D**
43. 12/06/2012 Email F. VAN WONTERGHEM to A. Thibault et al., Subject: Doel 3 – Tihange 2 RPV issue: Safety Case Reports (3 pages) **EX 4, 7D**
44. 12/16/2012 Laborelec GDF SVEZ, Strictly Confidential, Doel 3 Tihange 2 reactor pressure vessels: representativeness of the materials used for tests (26 pages) **Ex. 4, 7D**
45. 12/18/2012 Email G. Stevens to G. Roussel et al., Subject: Doel 3 – Tihange 2 RPV issue –WG3 - justification file, (7 pages) **EX 4, 5, 6, 7D**
46. 12/18/2012 Email G. Roussel to G. Stevens, Subject: RE: Doel 3 – Tihange 2 RPV issue: Licensee documents & Next Meeting 8&9 January 2013 (2 pages) **Ex. 4, 6, 7D**
47. 12/18/2012 Email G. Stevens to G. Roussel, et al., FW: Doel 3 – Tihange 2 RPV issue – WG3 – justification file. (3 pages) **EX. 4, 6, 7D**
48. 12/19/2012 Email A. Csontos, To M. Case et al., Subject: RE; RES Doel Work & PTS RG NUREG Tech Basis (3 pages) **Ex.5, 6 & Outside Scope**
49. 12/20/2012 NRC Comments and Questions on EPRI 1025787 (5 pages) **EX. 5**
50. 00/00/0000 Attachment: Addendum to memorandum of understanding

between U.S. NRC and Electric Power Research Institute on Cooperative Nuclear Safety Research (9 pages) **EX Outside Scope**

- 51. 12/21/2012 Email B. Brickstad, To G. Roussel, Subject: My comments and questions on the safety case of defects in Doel-3 (3 pages) **Ex. 4, 7D**
- 52. 01/02/2013 Email L. Lindhorst, to G. Roussel et al., Subject: RE: My comments and questions on the safety case of defects in Doel-3 (6 pages) **Ex. 4, 7D**
- 53. 01/02/2013 Email F. VAN WONTERGHIM, to A. Thibault, Subject: [Warning: Message Encrypted]Doel 3 – Tihange 2 RPV issue: Detailed Agenda for meeting of 8&9 January 2013 (3 pages) **EX 4, 7D**
- 54. 01/02/2013 879 January Meeting, Topics for discussion & agenda (4 pages) **Ex. 4, 7D**
- 55. 01/03/2013 Email A. Csontos to M. Kirk, Subject: RE: Read This: Backstory on the NRC Staff meeting on Doel – scheduler for 14th January, (1 page) **Ex. 5**
- 56. 01/04/2013 Email K. Hasegawa, To: B. Brickstad, Subject: RE: My comments and questions on the safety case of defects in Doel-3 (3 pages) **Ex. 4, 7D**
- 57. 01/06/2013 Email C. Nove, To F. Van Wonterghem, Subject: Doel 3-Tihange 2 RPV issue –feedback on WG1 reports, (8 pages) **Ex. 5**
- 58. 01/14/2013 Email K. Hasegawa to G. Stevens, Subject: RE: My comments and questions on the safety case of defects in Doel-3 (4 pages) **EX 4, 7D**
- 59. 01/14/2013 Email C. Nove, to R. Hardies et al., Subject: C Nove summary of Jan 2013 meeting at FANC + Path forward thoughts (6 pages) **Ex. 5**
- 60. 01/14/2013 Email G. Roussel, to R. Hardies et al., Subject: Doel 3 and Tihange 2 RPV issue, (32 pages) **EX 4, 7D**
- 61. 01/14/2013 Email G. Stevens, to A. Csontos et al., Subject: See attached for urgent weekend work by Tractebel/U.S. Industry on Doel RE Hydrostatic Test, (18 pages) **Ex. 4, 7D**
- 62. 01/15/2013 Email G. Stevens to M. Kirk et al., FW: My comments and questions on the safety case of defects in Doel-3. (4 pages) **EX. 4, 6, 7D**

63. 01/29/2013 Email G. Roussel, to R. Hardies et al., Subject: Doel 3-Tihange 2 RPV issue (36 pages) **Ex. 4, 7D**
64. 01/29/2013 Email G. Stevens, to G. Roussel, Subject: RE: Doel 3-Tihange 2 RLPV issue (1 page) **Ex. 4, 5, 7D**
65. 02/01/2013 Email F. VAN WONTERGHIM to A. Thibault et al., Subject: Doel 3-Tihange 2 RPV Issue: FANC Provisional Evaluation Report (8 pages) **EX 4, 7D**
66. 02/01/2013 Email A. WERTELAERS, to A. Thibault et al., Subject: Doel 3-Tihange 2 RPV issue: FANC Provisional Evaluation Report (2 pages) **Ex. 4, 7D**
67. 02/01/2013 Email A. Wertelaers, to A. Thibault et al., Subject: Doel 3-Tihange 2 RPV: FANC Evaluation Report, (65 pages) **Ex. 4, 7D**
68. 02/01/2013 Email F. VAN WONTERGHIM to A. Thibault et al., Subject: Doel 3-Tihange 2 RPV Issue: FANC Provisional Evaluation Report, (8 pages) **Ex. 4, 7D**
69. 02/06/2013 Email G. Roussel, to R. Hardies et al., Subj: Doel 3 – Tihange 2 RPV issue (36 pages) **EX 4, 7D**
70. 02/07/2013 Email C. Nove, to C. Latiolais, Subject: FW: Doel 3-Tihange 2 RPV: FANC Provisional Evaluation Report (3 pages) **Ex. 4, 7D**
71. 02/12/2013 Email A. Csontos, to G. Stevens, Subject: Re: On issue of Doel 3 & Tihang 2 RPV (2 pages) **Ex.4, 5, 7D**
72. 02/19/2013 Email C. Latiolais, to C. Nove et al., Subject: RE: Info for your consideration (1 page) **Ex. 5**
73. 02/21/2013 Email G. Roussel to G. Stevens, Subject: RE: March 5th Public Meeting (1 page) **Ex. 4, 7D**
74. 12/12/2013 Tractebel Engineering GDF SVEZ, Technical Note, Subject: Reactor Vessel In Service Hydrostatic Pressure Testing (9 pages) **Ex. 4, 7D**
75. 00/00/0000 Draft: Technical Basis for Risk-Informed Revision of the Provisions of 10 CFR 50 Appendix G. "Fracture Toughness Requirements", Appendix G. PFM Analysis of Cooldown Transients (76 pages) **Ex. 5**
76. 30/11/2012 Tasbel: Deliverable list (3 pages) **Ex. 4, 7D**

77. 11/07/12 Email M. Kirk, RES to R. Hardies NRR et al., FANC will make Tractebel/Electrabel analysis of Doel publically available in January 2013. (8 pages) **Exemptions 4, 6, 7D**
78. 01/08/13 PER Vault Summary Report for PER: (3 pages) **EX 5 Per TVA**

APPENDIX F β
RECORDS BEING WITHHELD IN THEIR ENTIRETY

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/ (PAGE COUNT)/EXEMPTIONS</u>
1.	Undated	Summary of Review of Doel 3/Tihange 2 Documents provided by FANC for WG3. (4 pages) Exemption 4, 7D
2.	Undated	List of Manufacturing Data to be Requested from Plants with Reactor Pressure Vessel Shell Forgings to Assess Need to Inspect for Hydrogen Flaking. (2 pages) Exemption 5
3.	Undated	Gary's Ideas on a Path Forward. (1 page) Exemption 5
4.	Undated	Indications in Reactor Pressure Vessel Forgings. (2 pages) Exemption 5
5.	Undated	Review of Doel 3 and Tihange 2 reports by Carol Nove, NRC/RES. (7 pages) Exemption 4, 7D
6.	Undated	Aggressive Approach diagram. (2 pages) Exemption 5
7.	10/16/12	Meeting Slides on Doel 3 – Tihange 2 RPV – Flaw Indications in the Reactors Shells. (11 pages) Exemption 4, 7D
8.	10/16/12	Meeting Slides on Ringhals 2 – Qualification and Inspection of Vessel Shells. (13 pages) Exemption 4, 7D
9.	10/16/12	FANC External Meeting Report on Working Meeting of Regulatory Expert Working Groups on Doe 3 & Tihange 2 Reactor pressure vessel indications (Brussels) (4 pages) Exemption 4, 7D
10.	10/16/12	FANC – External Meeting Report on Regulatory Expert Working Group 1 – Non-destructive examination techniques. (9 pages) Exemption 4, 7D
11.	10/16/12	Meeting Slides on Expert Working Group 1 on Non Destructive Examination Techniques. (52 pages) Exemption 4, 7D
12.	10/16/12	IRS Meeting Slides on Experiences of the WG members with respect to the observed phenomena. (2 pages) Exemption 4, 7D
13.	10/16/12	FANC – External Meeting Report on Technical Working meeting on Doel 3 Reactor pressure vessel indications (Brussels) – Working group 3. (6 pages) Exemption 4, 7D

14. 10/25/12 Meeting Slides on Indications in Reactor Pressure Vessel Forgings. (27 pages) **Exemption 4, 7D**
15. 10/29/12 Letter from S. Crombez, ASN Demonstration of the operating performance of reactors 3 and Doel Tihange 2. (20 pages) letter in French and English. **Exemption 4, 7D**
16. 11/06/12 Electrabel Analysis of TI2 Reactor Vessel Transients. (14 pages) **Exemption 4, 7D**
17. 11/13/12 Laborelec – Hydrogen flaking in reactor pressure vessels: consequences and potential evolution in service. (56 pages) **Exemption 4, 7D**
18. 11/15/12 Tractebel Engineering Technical Note on 1.4.2 RPV KCD3 CNT2 – Validation of the capability of an ultrasonic beam to characterize laminar flaws in the block VB395/1. (300 pages) **Exemption 4, 7D**
19. 11/17/12 Electrabel Analysis of transients having a potential impact on the reactor vessel at D3. (9 pages) **Exemption 4, 7D**
20. 11/19/12 Tractebel Engineering Technical Note 1.1.5 – Ultrasonic examination for laminar flaws – Synthesis report. (33 pages) **Exemption 4, 7D**
21. 11/23/12 Tractebel Engineering Technical Note 4.5.3 – 10CFR50.61a PTS study of the Tihange 2 Reactor Pressure Vessel Probabilistic approach. (58 pages) **Exemption 4, 7D**
22. 11/26/12 Tractebel Engineering Technical Note 2.2.4 – Manufacturing of foreign reactor pressure vessels by RDM/RN – Synthesis Report. (15 pages) **Exemption 4, 7D**
23. 11/26/12 Tractebel Engineering Technical Note 3.5.2 – Synthesis on all metallurgical aspects. (29 pages) **Exemption 4, 7D**
24. 11/26/12 Tractebel Engineering Technical Note 3.2.11 – Synthesis on mechanical tests and materials properties. (63 pages) **Exemption 4, 7D**
25. 11/30/12 Deliverable List. (3 pages) **Exemption 4, 7D**
26. 11/28/12 Tractebel Engineering Technical Note 3.4.1 – RPV indications at Doe 3 – Tihange 2: Screening of possible mechanisms for formation of the defects. (319 pages) **Exemption 4, 7D**
27. 11/30/12 Tractebel Engineering Technical Note 4.3.6 – Calculations: RPV

Doel 3: Structural assessment of the indications in Doel 3 reactor pressure vessel. (213 pages) **Exemption 4, 7D**

28. 12/06/12 Email from M. Kirk, RES to J. Poehler, NRR et al., on Hydrogen flaking maybe not restricted to forgings. (1 page) **Exemption 4, 7D**
- 10/05/12 Tractebel Engineering Technical Note 3.4.2 – Hydrogen flaking in steel: Phenomenology, origin and influencing factors. (40 pages) **Exemption 4, 7D**
29. 12/13/12 Tractebel Engineering Technical Note on Reactor Vessel in Service Hydrostatic Pressure Testing. (39 pages) **Exemption 4, 7D**
30. 12/16/12 Laborelec Doel3/Tihange 2 reactor pressure vessels: representativeness of the materials used for tests. (26 pages) **Exemption 4, 7D**
31. 12/20/12 Email from J. Poehler, NRR to G. Stevens, RES FW: Doel 3 and Tihange 2 RPV Issue – WG2 – Laborelec notes. (4 pages) **Exemption 4, 7D**
32. 12/29/12 A questionnaire for Electrabel's Safety Case Reports of Doel 3 and Tihange 2 and reference documents listed FANC's web pages. (3 pages) **Exemption 4, 7D**
33. 01/07/13 Tractebel Engineering Technical Note on Additional Comments on the Safety Case. (23 pages) **Exemption 4, 7D**
34. 01/08/13 8 & 9 January Meeting – Topics for discussion and agenda. (4 pages) **Exemption 4, 7D**
35. 01/10/13 Email from R. Hardies, NRR to P. Hiland, NRR et al., on Brief Summary of the discussions with FANC this week to discuss Doel. (1 page) **Exemption 4, 7D**
36. 01/29/13 Draft Safety Evaluation Report on Flaw Indications in the RPVs of Doel 3 and Tihange 2. (44 pages) **Exemption 4, 7D**
37. 01/31/13 Safety Evaluation Report on Flaw Indications in the RPVs of Doel 3 and Tihange 2. (35 pages) **Exemption 4, 7D**
38. 02/14/13 Preliminary Comments on the Doel-3 Quasi-laminar Indications. (1 page) **Exemption 5**