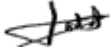



<b>UK EPR GDA PROJECT</b>				
<b>UK EPR</b>	Title: Resolution Plan for GI-UKEPR-CC02			
	RP unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 1 of 24
Approved for EDF by: A. PETIT		Approved for AREVA by: G. CRAIG		
Name/Initials		Date	30/07/2012	Name/Initials
				
				Date
				30/07/2012

### Resolution Plan Revision History

Rev.	Description of update	Date issued
0	First revision	30/06/2011
1	Incorporation of ARG comments	04/07/2011
2	Revision following agreement on End of GDA Design Reference	24/07/2012
3	Revision following ONR/EA comments	30/07/2012

#### 1.0 GDA ISSUE

GDA Issue Title	Main Assessment Area	Related Assessment Area
Consolidated final GDA Submission	MSQA	All topics area

<b>GDA Issue</b>	EDF and AREVA to continue to control, maintain and develop the GDA submission documentation, including the SSER, SML and design reference document and deliver final consolidated versions of these as the key references to any DAC/SODA the regulators may issue at the end of GDA. These should include the management and acceptance of changes to GDA submission documentation impacted by design changes agreed for inclusion in GDA.
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<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 2 of 24

## 2.0 OVERVIEW OF SCOPE OF WORK

EDF and AREVA will continue to control, maintain and develop the GDA submission documentation, including the Safety, Security & Environment Report (SSER), Submission Master List (SML) and design reference document and will deliver final consolidated versions of these documents as the key references to the DAC/SODA to be issued at the end of GDA.

The GDA submission documentation, including the SSER, SML and design reference document will be updated and consolidated to reflect work performed to resolve outstanding GDA Issues and processing of design changes agreed for inclusion in GDA.

Appropriate review and approval processes, which have been assessed by the Regulators throughout GDA, will continue to be performed in establishing the final consolidated submission.

Relevant evidence of the arrangements for the control, review, acceptance and implementation of amendments to documentation impacted by GDA design changes agreed for inclusion in GDA will be provided. The scope of design changes included in this GDA Issue includes those design changes already agreed for inclusion in GDA and, potentially, any additional design changes arising as part of the Resolution Plans associated with other GDA Issues.

EDF and AREVA have agreed with ONR and EA that the end of GDA Design Reference would consist of the 2008 Design Freeze (DF2008) plus design changes agreed in GDA (CMFs). The lower category design changes previously referred to in DF2010 are not included in the scope of this GDA Issue and deliverables related to DF2010 changes were removed from revision 2 of this Resolution Plan.

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 3 of 24

### 3.0 GDA ISSUE ACTIONS AND RESOLUTION PLAN DELIVERABLES

#### 3.1 Action GI-UKEPR-CC02.A1

Action I/D	Action Description
<b>GI-UKEPR-CC02.A1</b>	<p>EDF and AREVA to fully implement its processes to manage the implementation and acceptance of amendments to documentation impacted by design changes agreed for inclusion in GDA, including any other additionally agreed design changes associated with other GDA Issues Resolution Plans.</p> <p>This should involve the incorporation of all relevant amendments into the impacted documentation associated with design changes, including the Reference Design Configuration Document UKEPR-I-002, the PCSR and the PCER.</p> <p>Evidence we expect to see to address this action includes:</p> <ul style="list-style-type: none"> <li>• Revision of GDA submission documentation impacted by design changes agreed for inclusion in GDA and scheduled to be updated before the end of GDA; in particular, amendments to submission level 2 design information such as SDMs impacted by design changes agreed for inclusion in GDA.</li> <li>• Acceptance by EDF and AREVA of amendments to submission level 2 design change documentation provided by a GDA supplier (for example SOFINEL as a supplier of amended SDMs)</li> <li>• Completion of INSA and IPR where applicable and incorporation of DSRC recommendations into the GDA submission documentation, where appropriate, for any design changes agreed for inclusion in GDA.</li> <li>• Application of appropriate surveillance arrangements for suppliers/contractors used for the products.</li> </ul> <p>To facilitate our assessments and our inspections in this area the programme of deliverables of amended impacted design change documentation will need to include sufficient time for us to complete our assessments before we may issue any DAC/SODA.</p> <p>With agreement from the Regulators this action may be completed by alternative means.</p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 4 of 24

### 3.1.1 Planned submissions in response to GI-UKEPR-CC02.A1

#### 3.1.1.1 Description of Scope of Work

The following evidence of the application of the GDA processes will be provided to address this action:

- 1) Completion of the GDA design change process including update to the Design Change procedure UKEPR-I-003. : incorporation of all relevant amendments into :
- 2) Revision of GDA submission documentation impacted by design changes agreed for inclusion in GDA and scheduled to be updated before the end of GDA impacted by design changes agreed for inclusion in GDA.
- 3) Production of a Specification document describing the impact of the design changes agreed in GDA on the System Design Manuals (SDMs).
- 4) Completion of INSA/IPR process and incorporation of DSRC recommendations into the GDA submission documentation where appropriate, for design changes with a major impact on the GDA submission that are agreed for inclusion in GDA (until the cut-off date, see §3.1.1.2)

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 5 of 24

### 3.1.1.2 Description of Methodology to be employed

AREVA and EDF will apply their established design change process to ensure that implementation and acceptance of amendments to documentation for all agreed design changes is performed according to adequate QA processes.

Internal audits (EDF, AREVA) will be performed to confirm adequate implementation of the processes and identify any corrective actions if necessary.

For each design change for which Stage 1 is signed before the cut-off date (see below) an impact analysis will be performed identifying which GDA submission level 1 to 3 documents are impacted by the change. The results of these analyses will be recorded in the CMF submission programme. Level 1 and 2 documents impacted by a change will be updated during GDA where appropriate. The cases where Level 2 documents are not updated during GDA will be justified in accordance with EDF/AREVA internal and GDA specific QA processes.

In agreement with ONR/EA, the UK EPR System Design Manuals (SDMs) based on Design Freeze 2008 will not be updated in GDA to incorporate design changes as originally planned in revision 1 of this Resolution Plan. Instead, updates of these SDMs will be taken forward as a post-GDA activity and implemented through a Specification document provided in GDA. This Specification document will record the impact of the design changes agreed in GDA on the SDMs for future licensees.

The schedule for documents to be updated during GDA will be regularly provided to ONR/EA via the Submission Programme for CMFs. Documents impacted by design changes, but not scheduled for update, during GDA will also be included in the handover packages as outlined under action GI-UKEPR-CC02.A2.

A cut-off date at the end of May 2012 has been agreed between ONR/EA and EDF/AREVA for CMFs. The agreement is for design changes for which Stage 1 have been signed before 31/05/2012 to be processed through the full design change process (including Stage 1, 2, 3 and handover package). Stage 1 of design changes raised after 31/05/2012 (signature of Stage 1) will be completed and will include additional safety/environmental justification and preliminary categorisation. Accordingly, for these changes raised after end of May, a limited impact analysis on Level 1 and design reference documents will be performed and recorded in the design changes submission programme. This information will then be used for preparation of handover packages for future licensees to progress the changes from Stage 1.

To ensure a consistent design reference, all CMFs which have been agreed in GDA will be included into the GDA design reference document UKEPR-I-002.

The following steps (only applicable for CMFs raised before the cut-off date of 31/05/2012) will be used to ensure adequate implementation of GDA processes:

- Task 1: Screening of impacted topics for all changes: impacted technical topics (technical disciplines) will be identified for all design changes agreed for inclusion in GDA  
Schedule: 1 month after signature of Stage 1
- Task 2: Impact analyses for CMFs: systematic impact analysis will be performed for design

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 6 of 24

changes agreed for inclusion in GDA to identify what GDA submission documentation is impacted by each change. Impact analysis will be carried out on the current version of the SML. GDA review and validation processes will be applied.

Schedule: end of June 2011 for CMFs raised before end of March 2011. Impact analyses for CMFs raised after this date will be provided with further monthly updates of the Submission Programme for CMF.

- Task 3: Update of Design Reference: the design reference document (UKEPR-I-002) will be updated:
  - o Regular updates to reflect status of design changes (updates as often as necessary)
  - o The draft final consolidated version of UKEPR-I-002 will be submitted in October 2012; the final version by 28/11/2012.
- Task 4: Specification document for future updates of the SDMs: document describing how CMFs shall be implemented in future revisions of the SDMs.
  - o First draft including 3 or 4 examples for agreement with ONR/EA
  - o Regular updates to include design changes agreed in GDA (updates as often as necessary)
  - o Final consolidated Specification document will be submitted by 16/11/2012

The Design Change process Instruction (UKEPR-I-003) will be updated to reflect revised arrangements agreed with ONR/EA on the process, inclusion of the cut-off date for CMFs and updated forms (e.g.; CMF form, handover form). References to DF2010 changes will be removed from the revised procedure.

Design changes which have a major impact on the GDA submission (i.e. categorised A1 following the impact analysis; target date end of June 2011 for already identified design changes) will undergo an INSA review (safety-related changes) or IPR (environment related changes) in accordance with EDF/AREVA GDA processes. Regular updates on the status of the INSA/IPR process and submission of associated records will be provided via the monthly Submission Programme for CMF. In accordance with the above mentioned cut-off date, A1 design changes raised after 31/05/2012 (signature of Stage 1) will not be submitted to INSA/IPR reviews in GDA.

The Resolution Plan for action GI-UKEPR-CC02-A3 describes the management of the updates to the SSER impacted by design changes.

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<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 7 of 24

<b>3.1.1.3 Deliverable description</b>	<b>Submission date to ONR/EA</b>
<p>UK EPR Document - Specification for update of SDMs post-GDA</p> <p><i>Includes requirements for inclusion of CMFs in future revision of System Design Manuals post-GDA.</i></p> <ul style="list-style-type: none"> <li>- <i>First draft including examples for agreement on format with ONR/EA</i></li> <li>- <i>Regular updates to include design changes agreed in GDA</i></li> <li>- <i>Final consolidated Specification document</i></li> </ul>	<p>Draft: 30/05/2012 <i>(Actual issue date)</i></p> <p>Final: 16/11/2012</p>
<p>Impact Analyses for CMF</p> <p><i>Remaining Impact Analyses for all CMF raised before end-March 2011 will be provided with the June 2011 submission of the Submission Programme for CMF. Impact Analyses for CMF raised after this date will be provided with further monthly updates of the Submission Programme for CMF</i></p> <p><i>Impact analyses for CMFs opened between end March 2011 and end May 2012</i></p> <p><i>Impact analysis on L1 and design reference documents for CMFs opened after 31/05/2012 included in submission programme</i></p>	<p>30/06/2011 <i>(Actual issue date)</i></p> <p><i>According to submission programme schedule</i></p>
<p>Submission Programme for CMF</p> <p><i>Status of GDA Change Management Forms (CMFs), including impact analyses and scheduled dates for documentation update</i></p> <p><i>Development and issuance of overall CMF programme</i></p> <p><i>Regular updates to overall CMF programme</i></p>	<p>Monthly submission</p> <p>15/06/2012 <i>(Actual issue date)</i></p> <p>Monthly submission</p>
<p>UKEPR-I-002 – Design Reference</p> <p><i>Updates to reflect status of CMFs update</i></p> <p><i>Final consolidated version of GDA Reference Design document UKEPR-I-002</i></p>	<p>As necessary</p> <p>Draft: 26/10/2012</p> <p>Final: 28/11/2012</p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 8 of 24

<p>UKEPR-I-003 – Design Change Procedure</p> <p><i>Incorporation of all relevant amendments (Updates to CMF form, handover form, etc)</i></p>	<p>Draft: 25/05/2012 <i>(Actual issue date)</i></p> <p>Final: 15/06/2012 <i>(Actual issue date)</i></p>
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<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 9 of 24

### 3.2 Action GI-UKEPR-CC02.A2

Action I/D	Action Description
<b>GI-UKEPR-CC02.A2</b>	<p>EDF and AREVA to apply the revised Design Change procedure in order to identify and transfer all relevant agreed incomplete GDA design changes into NSL and permissioning activities, and Environmental Permitting.</p> <p>Evidence we expect to see provided to address this action includes:</p> <ul style="list-style-type: none"> <li>• Examples of application of arrangements for transfer of incomplete GDA design changes into Nuclear Site Licensing and Environmental Permitting activities.</li> </ul> <p>With agreement from the Regulators this action may be completed by alternative means.</p>

#### 3.2.1 Planned submissions in response to GI-UKEPR-CC02.A2

##### 3.2.1.1 Description of Scope of Work

EDF/AREVA's design change process includes arrangements for handing over incomplete GDA design changes from GDA into phase 2 activities. In response to this GDA Issue action, evidence of application of these arrangements will be provided to ONR/EA at the end of GDA.

An example handover package illustrating the proposed process has been presented to the Regulators in Step 4. Letter EPR70306N (closure of RO81) confirms that the example presented to the inspectors demonstrated how the transfer of information to NSL and permissioning activities, and Environmental Permitting will be managed.

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 10 of 24

### 3.2.1.2 Description of Methodology to be employed

In accordance with the GDA design change process, a systematic review of GDA submission Level 1, 2 and Level 3 documents is performed to identify GDA documents impacted by each design change (applicable to all design changes raised before the cut-off date, see §3.1.1.2). Most documents identified as impacted by a CMF will not be updated during GDA as they are scheduled for revision or replacement at a later stage during Licensing.

For CMFs raised after 31/05/2012, only Stage 1 will be signed and the handover package will be completed in order for the change to be progressed by future licensees from Stage 1.

At the end of GDA, document packages for each open design change will be created according to the design change process and handed over to the future licensees.

In response to this GDA Issue action, AREVA and EDF will provide evidence of:

- 1) Application of EDF/AREVA processes, including QA and technical reviews, for the control and development of the GDA handover packages to be created before the end of GDA and transmitted to the future licensees
- 2) Examples of handover packages for design changes for which all impacted documents scheduled to be updated during GDA have been issued but for which at least one document is scheduled for update post-GDA.

EDF and AREVA will issue example handover packages as soon as they become available, for the Regulators to assess the application of the handover process. ONR/EA comments will be reviewed and updates of the handover forms will be provided as appropriate.

In addition, to support handover to future licensees following GDA, a Handover Document for Licensees will be developed to provide a list of all design changes that are still open at the end of GDA (i.e. design changes for which at least one document impacted by the change has not been updated during GDA), according to the GDA design change process. Additionally, this document will provide general guidance relative to GDA for Licensees to be made aware of and take forward, as they deem appropriate.

This list will be in line with the final version of the UKEPR-I-002 design reference document listing all design changes agreed for inclusion in GDA which are still open.

This list will also include supporting documents impacted by GDA Issues but not scheduled to be updated during GDA (see also GI-UKEPR-CC02.A3).

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 11 of 24

<b>3.2.1.3 Deliverable description</b>	<b>Submission date to ONR/EA</b>
<p>Handover packages for all open design changes</p> <p>Transmission of examples of handover packages</p> <p><i>These packages destined for future licensees will include the completed handover forms and associated documentation (description of the change, impact analysis, technical supporting documentation) as described in the design change process</i></p>	<p>As available</p> <p>(First example group provided on 29/12/2011 – CMF 16)</p> <p>(Second example group provided on 29/05/2012 – CMFs 17 &amp; 23)</p> <p>Final: 21/11/2012</p>
<p>Submission Programme for Handover Packages</p> <p><i>Development and issuance of handover packages programme</i></p> <p><i>Regular updates to handover packages programme</i></p>	<p>15/06/2012 (Actual issue date)</p> <p>Monthly Submission</p>
<p>Handover Document for Licensees</p> <p><i>List of (i) all open design changes and the documents associated with these changes and (ii) list of documents impacted by a GDA Issue that still need to be updated, (iii) general guidance for Licensees.</i></p>	<p>Draft: 31/08/2012</p> <p>Final: 23/11/2012</p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 12 of 24

### 3.3 Action GI-UKEPR-CC02.A3

Action I/D	Action Description
<b>GI-UKEPR-CC02.A3</b>	<p>EDF and AREVA shall continue to control, maintain and develop the GDA submission documentation, including the SSER, SML and design reference document and shall deliver final consolidated versions of these as key references to any DAC/SODA we may issue at the end of GDA.</p> <p>Evidence we expect to see to address this action:</p> <ul style="list-style-type: none"> <li>• Application of EDF and AREVA due processes, including QA and technical reviews for the control and development of the GDA submission documentation scheduled to be created or updated before the end of GDA and contained within the SSER, SML and design reference document to address GDA Issue resolution, agreed design changes, and any other updates agreed with the Regulators.</li> <li>• Application of EDF and AREVA due processes, including technical reviews, INSA and IPR where applicable and QA consolidation checks on final GDA submission documentation scheduled to be created or updated before the end of GDA and contained within the SSER, SML and design reference document. The final GDA submission documentation is to be referenced from any DAC/SODA we may issue. The evidence should include: <ul style="list-style-type: none"> <li>- Management and incorporation of all review comments and DSRC recommendations in the final consolidated documentation as necessary.</li> <li>- The full assessment of impacts arising from proposed modifications or changes in specific topic areas, including consequential impacts across the SSER.</li> </ul> </li> <li>• Delivery of final consolidated GDA submission documentation scheduled to be created or updated before the end of GDA including SSER, SML and design reference document in good time for regulatory assessment prior to any decisions to issue DAC/SODA that would reference these documents</li> </ul> <p>With agreement from the Regulators this action may be completed by alternative means.</p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 13 of 24

### 3.3.1 Planned submissions in response to GI-UKEPR-CC02.A3

#### 3.3.1.1 Description of Scope of Work

The UK Regulators have issued a number of GDA Issues to be resolved before the DAC/SoDA is granted for the UK EPR. The resolution of these GDA Issues impacts the SSER and some supporting documents.

A limited number of other remaining items will need to be addressed in the final update of the consolidated GDA submission, e.g. ONR review of the consolidated March 2011 PCSR chapters, etc.

In addition, EDF and AREVA will update GDA documentation scheduled to be updated before the end of GDA, incorporating a number of agreed design changes as described in action GI-UKEPR-CC02.A1.

EDF and AREVA will provide evidence of the application of established GDA processes including QA and technical reviews for the control and development of the GDA submission documentation contained within the SSER, SML and design reference document to address above items and application of appropriate surveillance arrangements for suppliers/contractors used for the GDA products

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 14 of 24

### 3.3.1.2 Description of Methodology to be employed

EDF and AREVA will continue to apply, and where needed further develop, their processes for controlling and updating the GDA documentation, including SSER, Submission Master List, and design reference documents.

Task 1: Update of design reference document is described in action GI-UKEPR-CC02.A1 of this Resolution Plan.

Task 2: Update of SSER

GDA arrangements and tools used for March 2011 submission specifying the inputs and processes to be applied for consolidating the GDA SSER will be used for the next revision of the SSER. Established processes used for previous submissions will be used and experience feedback will be considered. A dedicated GDA project instruction for the Consolidated SSER submission will be issued.

GDA tools identifying items that need inclusion in the Consolidated GDA SSER will continue to be used. The following items have already been identified for inclusion in the next SSER submission:

- Updates to address GDA Issue resolution. Each GDA Issue Resolution Plan identifies the SSER chapters potentially impacted by the resolution of the GDA Issue,
- Agreed design changes,
- Residual RO/TQ responses from step 4 not included in the March 2011 update,
- DSRC recommendations (following INSA reviews),
- ONR/EA comments on the Consolidated GDA Step 4 SSER,
- Any other modification to the SSER agreed with the Regulators.

The SSER is structured with individually numbered and controlled documents at the sub-chapter level and is therefore well adapted to limited updates at the sub-chapter level. Sub-chapters will be updated on an “early-as-possible” basis once technical convergence has been achieved on individual GDA Issues. Unless the changes to a SSER sub-chapter are minor (e.g. typographical corrections) or have been agreed in principle with ONR/EA, e.g. numbering of references, draft updates of SSER sub-chapters will be provided to the Regulators together with the relevant parts of the Route Map for comment prior to formal release; the last draft updates are planned to be submitted by 12/10/2012. Following established GDA processes, EDF and AREVA will transmit submission documents under cover of formal letter; safety submissions will be addressed to ONR, environment submissions to EA and submission documents impacting both the safety and the environment submission will be addressed to both Regulators. These SSER update deliverables associated with individual GDA Issues are managed as deliverables within the associated individual Resolution Plans.

SSER chapters impacted by several GDA Issue Resolution Plans will be sent to the Regulators in draft version to account for each separate update (process similar to the draft chapters sent for the March 2011 PCSR).

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 15 of 24

The objective milestone for completion of formal release of the final updated SSER Sub-chapters is 27/11/2012.

The update of the SSER is captured in the Resolution Plan for each GDA Issue. The individual Resolution Plans show the initial date agreed for submission of the update of the draft SSER chapter and review by the Regulators, and the final update of the SSER chapter addressing each GDA Issue. As outlined above, SSER chapters may be impacted by further items not directly linked to a GDA Issue, e.g. design changes or Regulators' feedback on the March 2011 SSER.

EDF and AREVA have reviewed the comments on the Consolidated GDA Step 4 SSER received in June 2011 from ONR/EA and have provided responses to ONR/EA in September 2011. EDF/AREVA will review any further responses from ONR/EA and, in turn, will provide a further response. For comments that require an update of the SSER EDF and AREVA will provide ONR and EA with dates for these updates, taking into account already planned updates of SSER chapters, e.g. to address GDA Issues. Planned updates of SSER chapters in response to ONR/EA comments will be captured in the SSER Route Maps.

A schedule providing an overview of all SSER sub-chapters to be updated to address UK EPR GDA Issues was provided in early July 2011. A more detailed overall schedule, providing an overview of updates to the SSER and supporting documents to address above items, has been provided in order for the Regulators to organise review and acceptance of the individual sub-chapters. Submission of the more detailed overall schedule was made at the end of July 2011. Updates to the overall SSER sub-chapters delivery schedule will be provided on a regular basis to the Regulators.

In the case of any delays in the submission of deliverables in response to a GDA Issue, the relevant ONR/EA Inspector will be informed by EDF and AREVA in writing. The detailed overall schedule will be updated accordingly.

If a modification to the schedule has an impact on the overall programme for delivering the final consolidated GDA submission documentation, EDF and AREVA will also formally inform the UK EPR GDA Project Manager, Project Inspector, Assessment Unit Heads, MSQA Inspector and the EA.

Impacts on SSER chapters not considered in the final consolidated SSER will be covered by the handover process described in action GI-UKEPR-CC02.A2 (handover document).

### Task 3: Update of supporting documentation

A systematic impact analysis of the GDA documents impacted by resolution of GDA Issues has been performed in establishing the GDA Issue Resolution Plans. These impact analyses shall be reviewed periodically during the execution of the plans and the Resolution Plans shall be updated if necessary. Changes to GDA Issue impact analyses for the SSER will be captured in the SSER Route Maps.

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<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 16 of 24

If the resolution of a GDA Issue leads to a new design change, then the supporting documentation impacted by the design change will be identified through the processes described in the design change process (see action GI-UKEPR-CC02.A1).

Supporting documents impacted by GDA Issue resolution not scheduled to be updated during GDA shall be clearly identified in a dedicated list (see action GI-UKEPR-CC02.A2). This list will then be handed over to the future licensees along with the supporting documentation responding to the GDA Issue.

**Task 4: Update of the GDA Submission Master List and SSER Route Maps**

In accordance with GDA processes AREVA and EDF will periodically provide updates to the Submission Master List and to the SSER route maps:

- Route Maps including all future updates to SSER chapters,
- SML containing all GDA submission documents.

The draft final Submission Master List will be submitted by 31/10/2012; the final version by 28/11/2012.

The draft final SSER Route Maps which will list all updates done in the PCSR/PCER since March 2011 submission will be submitted by 31/10/2012; the final version by 28/11/2012.

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<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 17 of 24

<b>3.3.1.3 Deliverable description</b>	<b>Submission date to ONR/EA</b>
<p>Specification for final consolidated GDA SSER (UKEPR-I-038)</p> <p><i>Project instruction specifying schedule, responsibilities and scope of work for updated of PCSR/PCER for final consolidated GDA SSER</i></p> <p><i>Revision 1 to Specification for final consolidated GDA SSER (UKEPR-I-038 Rev 001)</i></p> <p><i>Revision 2 to Specification for final consolidated GDA SSER (UKEPR-I-038 Rev 002)</i></p>	<p>Initial issue: 29/07/2011 <i>(Actual issue date)</i></p> <p>Rev. 1 issue: 21/05/2012 <i>(Actual issue date)</i></p> <p>Rev. 2 issue (final): 31/08/2012</p>
<p>Submission Master List</p> <p><i>Updated Submission Master List including all documents submitted until 1 month before the submission date</i></p> <p><i>Final consolidated SML including all documents sent in GDA</i></p>	<p>Quarterly Submission</p> <p>Draft: 31/10/2012</p> <p>Final: 28/11/2012</p>
<p>PCER / PCSR Route Maps</p> <p><i>Updated SSER Route Maps including all updates scheduled for final SSER</i></p> <p><i>Final consolidated Route Map including all changes done in PCSR/PCER submission</i></p>	<p>Quarterly submission</p> <p>Draft: 31/10/2012</p> <p>Final: 28/11/2012</p>
<p>Consolidated SSER</p>	<p>According to GI Resolution Plans and overall schedule</p> <p>Last draft chapters by: 12/10/2012</p> <p>Last final chapters by: 27/11/2012</p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 18 of 24

<p>Response to ONR/EA comments on March 2011 SSER received 22/06/2011</p> <p><i>Provision of feedback on ONR/EA comments. For comments that require an update of the SSER, provision of dates for these updates</i></p>	<p>30/09/2011 <i>(Actual issue date)</i></p>
<p>Overall schedule – SSER chapters and supporting document update</p> <p><i>First version of overall schedule for updating individual SSER sub-chapters impacted by GDA Issues</i></p> <p><i>Schedule for update of individual SSER sub-chapters and supporting documents (issue as an annex to the update route map document)</i></p> <p><i>Updates of SSER sub-chapters delivery schedule</i></p>	<p>08/07/2011 <i>(Actual issue date)</i></p> <p>29/07/2011 <i>(Actual issue dates)</i></p> <p><i>Consistent with the Route Map update frequency</i></p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 19 of 24

#### 4.0 SUMMARY OF IMPACT ON GDA SUBMISSION DOCUMENTATION

##### 4.1 GDA submission documents impacted by GDA Issue and scheduled to be created (C) or updated (U) within GDA

GDA Submission Documents	C/U	Related GDA Issue Action(s)	Submission Date to ONR/EA
<b>SSER sub-chapters</b> Potentially all PCSR sub-chapters / PCER sub-chapters	<b>U</b>	GI-UKEPR-CC02-A3	According to GI Resolution Plans and overall schedule;  According to schedule (Resolution Plans) and overall schedule; Last draft chapters: 12/10/2012 Last final chapters: 27/11/2012
<b>GDA reference design documents (SDM in UKEPR-I-002)</b> None			
<b>Other GDA submission supporting documents</b> UK EPR Document - Specification for update of SDMs post-GDA  <i>Includes requirements for inclusion of CMFs in future revision of System Design Manuals post-GDA.</i> <ul style="list-style-type: none"> <li>- <i>First draft including examples for agreement on format with ONR/EA</i></li> <li>- <i>Regular updates to include design changes agreed in GDA</i></li> <li>- <i>Final consolidated Specification document</i></li> </ul>	<b>C</b>	GI-UKEPR-CC02-A1	Draft: 30/05/2012 <i>(Actual issue date)</i>  Final: 16/11/2012

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 20 of 24

<p>Impact Analyses for CMF</p> <p><i>Remaining Impact Analyses for all CMF raised before end-March 2011 will be provided with the June 2011 submission of the Submission Programme for CMF. Impact Analyses for CMF raised after this date will be provided with further monthly updates of the Submission Programme for CMF</i></p> <p><i>Impact analyses for CMFs opened between end March 2011 and end May 2012</i></p> <p><i>Impact analysis on L1 and SDMs for CMFs opened after 31 May 2012 included in submission programme</i></p>	<b>U</b>	GI-UKEPR-CC02-A1	<p>30/06/2011 <i>(Actual issue date)</i></p> <p><i>According to submission programme schedule</i></p>
<p>Submission Programme for CMF</p> <p><i>Status of GDA Change Management Forms (CMFs), including impact analyses and scheduled dates for documentation update</i></p> <p><i>Development and issuance of overall CMF programme</i></p> <p><i>Regular updates to overall CMF programme</i></p>	<b>U</b>  <b>C</b>	GI-UKEPR-CC02-A1	<p>Monthly submission</p> <p>15/06/2012 <i>(Actual issue date)</i></p> <p>Monthly submission</p>
<p>UKEPR-I-002 – Design Reference</p> <p><i>Updates to reflect status of CMFs update</i></p> <p><i>Final consolidated version of GDA Reference Design document UKEPR-I-002</i></p>	<b>U</b>	GI-UKEPR-CC02-A1	<p>As necessary</p> <p>Draft: 26/10/2012</p> <p>Final: 28/11/2012</p>
<p>UKEPR-I-003 – Design Change Procedure</p> <p><i>Incorporation of all relevant amendments (Updates to CMF form, handover form, etc)</i></p>	<b>U</b>	GI-UKEPR-CC02-A1	<p>Draft: 25/05/2012 <i>(Actual issue date)</i></p> <p>Final: 15/06/2012 <i>(Actual issue date)</i></p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 21 of 24

<p>Response to ONR/EA comments on March 2011 SSER received 22/06/2011</p> <p><i>Provision of feedback on ONR/EA comments. For comments that require an update of the SSER, provision of dates for these updates</i></p>	<b>U</b>	GI-UKEPR-CC02-A3	30/09/2011 <i>(Actual issue date)</i>
<p>Specification for final consolidated GDA SSER (UKEPR-I-038)</p> <p><i>Project instruction specifying schedule, responsibilities and scope of work for updated of PCSR/PCER for final consolidated GDA SSER</i></p> <p><i>Revision 1 to Specification for final consolidated GDA SSER (UKEPR-I-038 Rev 001)</i></p> <p><i>Revision 2 to Specification for final consolidated GDA SSER (UKEPR-I-038 Rev 002)</i></p>	<b>C</b>	GI-UKEPR-CC02-A3	<p>Initial issue: 29/07/2011 <i>(Actual issue date)</i></p> <p>Rev. 1 issue: 21/05/2012 <i>(Actual issue date)</i></p> <p>Rev. 2 issue (final): 31/08/2012</p>
<p>PCSR and PCER Route Maps</p> <p><i>Updated SSER Route Maps including all updates scheduled for final SSER</i></p> <p><i>Final consolidated Route Map including all changes done in PCSR/PCER submission</i></p>	<b>U</b>	GI-UKEPR-CC02-A3	<p>Quarterly submission</p> <p>Draft: 31/10/2012</p> <p>Final: 28/11/2012</p>
<p>Overall schedule – SSER chapters and supporting document update</p> <p><i>First version of overall schedule for updating individual SSER sub-chapters impacted by GDA Issues</i></p> <p><i>Schedule for update of individual SSER sub-chapters and supporting documents</i></p> <p><i>Updates of SSER sub-chapters delivery schedule</i></p>	<b>U</b>	GI-UKEPR-CC02-A3	<p>08/07/2011 <i>(Actual issue date)</i></p> <p>29/07/2011 <i>(Actual issue date)</i></p> <p><i>Consistent with the Route Map update frequency</i></p>
<p>Submission Master List</p> <p><i>Final consolidated SML including all documents sent in GDA</i></p>	<b>U</b>	GI-UKEPR-CC02-A3	<p>Quarterly submission</p> <p>Draft: 31/10/2012</p> <p>Final: 28/11/2012</p>

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 22 of 24

<p>Handover packages for all open design changes</p> <p>Transmission of examples of handover packages</p> <p><i>These packages destined for future licensees will include the completed handover forms and associated documentation (description of the change, impact analysis, technical supporting documentation) as described in the design change process</i></p>	<b>C</b>	GI-UKEPR-CC02-A2	<p>As available</p> <p>(First example group provided on 29/12/2011 – CMF 16)</p> <p>(Second example group provided on 29/05/2012 – CMFs 17 &amp; 23)</p> <p>Final: 21/11/2012</p>
<p>Submission Programme for Handover Packages</p> <p><i>Development and issuance of handover packages programme</i></p> <p><i>Regular updates to handover packages programme</i></p>	<b>C</b>	GI-UKEPR-CC02-A2	<p>15/06/2012 (Actual issue date)</p> <p>Monthly Submission</p>
<p>Handover Document for Licensees</p> <p><i>List of (i) all open design changes and the documents associated with these changes and (ii) list of documents impacted by a GDA Issue that still need to be updated, (iii) general guidance for Licensees.</i></p>	<b>C</b>	GI-UKEPR-CC02-A2	<p>Draft: 31/08/2012</p> <p>Final: 23/11/2012</p>

#### 4.2 GDA submission documents impacted by GDA Issue and scheduled to be updated post-GDA

<b>Document</b>
All documents identified through Handover process project document – List of documents to be updated Document specifying (i) all open design changes and the documents associated to these changes and (ii) list of documents impacted by a GDA Issue that still need to be updated.

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 23 of 24

## 5.0 JUSTIFICATION OF ADEQUACY

AREVA and EDF will systematically review all documents sent to the Regulators after 31<sup>st</sup> March 2011 (RO/TQ responses, GDA Issue resolution deliverables) and consider the list of ONR comments on the consolidated Step 4 PCSR (March 2011 version) attached to this GDA Issue Action in order to identify whether further updates of the GDA documentation are required (SSER, and supporting documents).

GDA Step 4 Project Tools will be reviewed to identify any outstanding items that still need to be included in the GDA documentation. Dedicated GDA instructions, based on processes and tools successfully established and implemented during GDA, will be issued to provide the technical and project teams with guidance and requirements for the Final DAC/SoDA Consolidated GDA documentation update, (e.g.; SDMs update, Final GDA SSER update). Internal AREVA and EDF QA processes and joint GDA project processes will be applied for update, review and acceptance of documents; this includes processes for review and acceptance of documents provided by GDA suppliers.

Established tools such as SML and PCSR/PCER Route Maps used for the Consolidated Step 4 submission and recognised by the Regulators will continue to be applied in accordance with GDA QA processes. Established tools (e.g. submission programme) will be used to track systematically each design change and their impact on the GDA documentation.

Finally, GDA documents impacted by the resolution of GDA Issues or by design changes which are not updated during GDA will be identified in a dedicated UK EPR document for handover to future licensees. This ensures completeness of control of the GDA documentation.

<b>UK EPR</b>	<b>UK EPR GDA PROJECT</b>			
	Title: Resolution Plan for GI-UKEPR-CC02			
	GI unique number: <b>GI-UKEPR-CC02-RP</b>	Revision No.: 3	Effective Date: 30/07/2012	Page No.: 24 of 24

## 6.0 TIMETABLE AND MILESTONE PROGRAMME LEADING TO THE DELIVERABLES

Consult the following pages for the associated timetable and milestone programme.



ID	Nom de la tâche	Duration	Start	Finish	Qtr 1, 2011	Qtr 2, 2011	Qtr 3, 2011	Qtr 4, 2011	Qtr 1, 2012	Qtr 2, 2012	Qtr 3, 2012	Qtr 4, 2012	Qtr 1, 2013
1	<b>Meetings / Audits</b>	<b>155 days</b>	<b>Mon 29/08/11</b>	<b>Fri 30/03/12</b>									
2	ONR/EA inspection on Update of SDMs (October/November 2011)	43 days	Mon 03/10/11	Wed 30/11/11									
3	EDF and AREVA Internal Audits (end Q3/beginning Q4 2011)	47 days	Mon 29/08/11	Tue 01/11/11									
4	ONR/EA assessment of Handover packages (Q1/2012)	65 days	Mon 02/01/12	Fri 30/03/12									
5	<b>Action 1 - Design Changes</b>	<b>413 days</b>	<b>Wed 04/05/11</b>	<b>Wed 28/11/12</b>									
6	<b>UK EPR GDA Project Instruction - Specification for Update of SDMs post-GDA</b>	<b>167 days</b>	<b>Fri 30/03/12</b>	<b>Fri 16/11/12</b>									
7	Specification Preparation (Draft)	44 days	Fri 30/03/12	Wed 30/05/12									
8	Transmission to ONR	0 days	Wed 30/05/12	Wed 30/05/12									
9	ONR/EA Review	48 days	Thu 31/05/12	Fri 03/08/12									
10	Specification Update (Final)	50 days	Mon 10/09/12	Fri 16/11/12									
11	Transmission to ONR	0 days	Fri 16/11/12	Fri 16/11/12									
12	<b>CMFs Raised Before end-March 2011</b>	<b>114 days</b>	<b>Wed 04/05/11</b>	<b>Fri 07/10/11</b>									
13	Impact analyses for CMFs	42 days	Wed 04/05/11	Thu 30/06/11									
14	Transmission of updated Submission Program	0 days	Thu 30/06/11	Thu 30/06/11									
15	ONR/EA Review	72 days	Fri 01/07/11	Fri 07/10/11									
16	<b>CMF Programme</b>	<b>100 days</b>	<b>Fri 15/06/12</b>	<b>Wed 31/10/12</b>									
17	Submittal of Consolidated PCSR/PCER programme	0 days	Fri 15/06/12	Fri 15/06/12									
18	Regular Updates of Consolidated PCSR/PCER programme	100 days	Fri 15/06/12	Wed 31/10/12									
19	<b>Update of Design Reference Procedure UKEPR-I-002</b>	<b>360 days</b>	<b>Mon 18/07/11</b>	<b>Wed 28/11/12</b>									
20	Regular Update of UKEPR-I-002 for CMFs evolution (as deemed necessary)	317 days	Mon 18/07/11	Fri 28/09/12									
21	Preparation of Draft Final Version of UKEPR-I-002	50 days	Mon 20/08/12	Fri 26/10/12									
22	Transmission to ONR/EA	0 days	Fri 26/10/12	Fri 26/10/12									
23	ONR/EA Review	15 days	Mon 29/10/12	Fri 16/11/12									
24	Preparation of Final Version of UKEPR-I-002	8 days	Mon 19/11/12	Wed 28/11/12									
25	Transmission to ONR/EA	0 days	Wed 28/11/12	Wed 28/11/12									
26	<b>Update of Design Change Procedure UKEPR-I-003</b>	<b>43 days</b>	<b>Wed 18/04/12</b>	<b>Fri 15/06/12</b>									
27	Preparation of Update to UKEPR-I-003	28 days	Wed 18/04/12	Fri 25/05/12									
28	Transmission to ONR/EA	0 days	Fri 25/05/12	Fri 25/05/12									
29	ONR/EA Review	6 days	Wed 30/05/12	Wed 06/06/12									
30	Incorporation/Resolution of Comments UKEPR-I-003 (if applicable)	7 days	Thu 07/06/12	Fri 15/06/12									
31	Transmission to ONR/EA	0 days	Fri 15/06/12	Fri 15/06/12									
32	<b>Action 2 - Handover process</b>	<b>266 days</b>	<b>Mon 21/11/11</b>	<b>Fri 23/11/12</b>									
33	Examples of Handover Package (CMF16)	29 days	Mon 21/11/11	Thu 29/12/11									
34	Transmission to ONR/EA	0 days	Thu 29/12/11	Thu 29/12/11									
35	Additional Draft Examples of Handover Packages (CMF17 & CMF23)	28 days	Fri 20/04/12	Tue 29/05/12									
36	Transmission to ONR/EA	0 days	Tue 29/05/12	Tue 29/05/12									
37	Preparation of All Handover Packages	127 days	Wed 30/05/12	Wed 21/11/12									
38	Transmission to ONR/EA of Final Handover Packages	0 days	Wed 21/11/12	Wed 21/11/12									
39	<b>Handover Document for Licensees (Doc No. TBD)</b>	<b>110 days</b>	<b>Tue 26/06/12</b>	<b>Fri 23/11/12</b>									
40	Preparation of List of Documents and Packages (Handover Process) [Draft]	50 days	Tue 26/06/12	Fri 31/08/12									
41	Transmission to ONR/EA	0 days	Fri 31/08/12	Fri 31/08/12									
42	ONR/EA review	20 days	Mon 03/09/12	Fri 28/09/12									
43	Preparation of List of Documents and Packages (Handover Process) [Final]	40 days	Mon 01/10/12	Fri 23/11/12									
44	Transmission to ONR/EA	0 days	Fri 23/11/12	Fri 23/11/12									
45	<b>Handover Package Programme</b>	<b>100 days</b>	<b>Fri 15/06/12</b>	<b>Wed 31/10/12</b>									
46	Submittal of Handover Package programme	0 days	Fri 15/06/12	Fri 15/06/12									
47	Regular Updates of Handover Package programme	100 days	Fri 15/06/12	Wed 31/10/12									
48	<b>Action 3 - SSER / SML update</b>	<b>395 days</b>	<b>Mon 30/05/11</b>	<b>Wed 28/11/12</b>									
49	<b>ONR/EA comments on March 2011 SSER received in June 2011</b>	<b>73 days</b>	<b>Thu 23/06/11</b>	<b>Fri 30/09/11</b>									
50	Review of comments by EDF/AREVA	73 days	Thu 23/06/11	Fri 30/09/11									
51	Response to ONR/EA comments incl. dates for SSER update	0 days	Fri 30/09/11	Fri 30/09/11									
52	<b>SML</b>	<b>372 days</b>	<b>Thu 30/06/11</b>	<b>Wed 28/11/12</b>									
53	Quarterly SML updates	352 days	Thu 30/06/11	Wed 31/10/12									
54	Draft Final SML	0 days	Wed 31/10/12	Wed 31/10/12									
55	ONR/EA review of draft Final SML	20 days	Thu 01/11/12	Wed 28/11/12									
56	Final SML	0 days	Wed 28/11/12	Wed 28/11/12									
57	<b>Route Map</b>	<b>349 days</b>	<b>Mon 01/08/11</b>	<b>Wed 28/11/12</b>									
58	Quarterly Route Map updates	329 days	Mon 01/08/11	Wed 31/10/12									
59	Draft Final Route Map	0 days	Wed 31/10/12	Wed 31/10/12									
60	ONR/EA review of draft Final Route map	20 days	Thu 01/11/12	Wed 28/11/12									
61	Final Route Map	0 days	Wed 28/11/12	Wed 28/11/12									
62	<b>Overall schedule</b>	<b>346 days</b>	<b>Fri 08/07/11</b>	<b>Wed 31/10/12</b>									
63	First submission of high level overall schedule	0 days	Fri 08/07/11	Fri 08/07/11									
64	First submission of detailed overall schedule	0 days	Fri 29/07/11	Fri 29/07/11									
65	Submittal of Consolidated PCSR/PCER programme	0 days	Fri 15/06/12	Fri 15/06/12									
66	Regular Updates of Consolidated PCSR/PCER programme	100 days	Fri 15/06/12	Wed 31/10/12									
67	<b>Instruction for SSER update (UKEPR-I-038)</b>	<b>332 days</b>	<b>Mon 30/05/11</b>	<b>Fri 31/08/12</b>									
68	Draft instruction and review	45 days	Mon 30/05/11	Fri 29/07/11									
69	Submission to ONR/EA	0 days	Fri 29/07/11	Fri 29/07/11									
70	ONR/EA review of project instruction	24 days	Sat 30/07/11	Wed 31/08/11									
71	Update of instruction - Revision 1	20 days	Tue 24/04/12	Mon 21/05/12									
72	Revision 1 submission of instruction	0 days	Mon 21/05/12	Mon 21/05/12									
73	ONR/EA review of project instruction	28 days	Tue 22/05/12	Thu 28/06/12									
74	Update of instruction - Revision 2	20 days	Mon 06/08/12	Fri 31/08/12									
75	Revision 2 submission of instruction (final)	0 days	Fri 31/08/12	Fri 31/08/12									
76	<b>SSER chapters</b>	<b>272 days</b>	<b>Tue 15/11/11</b>	<b>Tue 27/11/12</b>									
77	SSER chapter draft updates	240 days	Tue 15/11/11	Fri 12/10/12									
78	Submission of final SSER chapter updates to ONR/EA	0 days	Tue 27/11/12	Tue 27/11/12									

