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ESP-RIFTS JIP Phase XII Work Scope

This section describes the main tasks to be performed by C-FER in Phase XII of the ESP-RIFTS JIP. These tasks are aligned with the key directions set by the Steering Committee (SC) for this phase of the project, which are: (a) help Participants streamline their data collection processes; (b) improve the management and transfer of project knowledge to the users; (c) facilitate Participants making the best use of the system; and (d) continue the efforts to improve the understanding of the factors that affect run-life through analysis work.

Task 1210: Project Website Maintenance

Participants obtain value from the project mostly through the use of the Project Website. The main objective of this task is to ensure effective and timely access to all new project information, ESP reliability data and analysis tools through the Project Website. As new project information is generated it will be uploaded to the main server, approximately every three months. Each upload will likely also contain new data processed as part of Task 1220, new website pages with new analysis capabilities developed during this phase of the JIP, and any new Knowledge Management features or documentation developed in Task 1280. Specific improvements will be agreed upon between C-FER and the SC and may include, for instance, a new page to help Users find “neighbor” or “analog” fields or to automatically conduct “What-If” type statistical analysis with the records selected to try to identify the most influential parameters for that dataset. Presentations made by C-FER and the Participants during the SC Meetings, as well as the minutes for such meetings and other relevant documents, will be posted on the Project Website and made available for download by the Participants. Budget allowing, C-FER will continue to add available information (e.g. from papers) about the different operating Fields currently available in the Website, as this is considered very useful to the User when doing analysis.

Task 1220: Data Processing

C-FER will continue working towards maintaining the data in the system up-to-date, focusing on those Participants whose datasets have not been updated recently (i.e. within the last year or so). Efforts will be made to further improve the quality and completeness of the data in the system. C-FER will continue supporting the Participants in their efforts to streamline their internal data collection processes and align them with the project standards. The Data Input Sheet (DIS) will be further “enhanced”, but at a slower pace, with the intention to keep promoting its use at the Asset level. Additional features will be agreed upon by C-FER and the SC, depending on budget availability, and may include an improved version of the Query function. C-FER will assist Participants who may want to develop automated mapping profiles to transfer the data from their databases to the DIS, as required.



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Task 1230: Data Analyses

C-FER will continue to conduct analyses using the data in the system and to discuss the results during at least one of the Project Meetings (see Task 1270). These analyses will likely continue to be topic specific, in the areas of interest identified by the Participants, such as the effects of Sand and Solids and on the issues related to High Power Systems. The focus may shift to other topics of interest such as the performance of High Temperature ESP Systems in SAGD applications. Another possibility is an in-depth investigation of the effects of certain parameters identified as highly influential in other analyses already conducted by C-FER, such as Casing OD.

Task 1240: ESP-RIFTS Standards

The project is in a mature stage and no major revisions to project standard documents, such as the Failure Nomenclature Standard, are planned. Minor revisions may be undertaken, however, as ESP technology applications are continually evolving. One example is how to properly handle redundant (“dual”) ESP Systems in the same well.

Task 1250: Development of New Analysis Techniques

A significant effort was made in Phase XI in investigating some of the issues related to the What-If model, such as the effect of bias introduced by large datasets, and questions about the model form. C-FER will consult with the Participants before conducting further work on the What-If model. Based on the feedback already received at the February 2010 SCM, however, this work may include looking at ways to try to separate “weak” and “strong” Systems.

Task 1260: Go-Forward Plan for Phase XI (2010-2011)

Since the beginning of the project, the vision for the ESP-RIFTS JIP was that of an “on-going” effort, with continuous work on bringing new data into the system, ensuring its quality, improving the data analysis capabilities available to the Participants through the Project Website, and uncovering key parameters contributing to ESP run-life, while providing the framework for knowledge and best practice sharing. To help ensure these goals are achieved and that the project moves on into future phases that provide the Participants with continuous access to the system, C-FER will prepare specific plans for Phase XIII and will present them for discussion during the November 2010 SC meeting. If warranted by such discussions, C-FER will then prepare another amendment to the JIP Agreement, to cover the following year of system development and maintenance by C-FER. This Amendment will be distributed for review by the Participants by late February 2011.



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Task 1270: Project Meetings

Project meetings have been instrumental in maintaining the collective leadership environment required for good project stewardship and facilitating knowledge sharing. The SC has agreed to continue having two SC meetings per phase. The first meeting will be scheduled in mid-November 2010, in conjunction with the ISO task force meeting, to help facilitate attendance. This will be a two-day highly technical meeting and a Participant's workshop will likely be scheduled to continue fostering the timely exchange of technical information on issues of relevance (e.g. ESP Cable reutilization criteria). The main purpose of the second meeting will be to evaluate progress made during Phase XII and to confirm previously agreed directions for continuation of the project into the next phase. This second meeting will take place in late April 2011 in The Woodlands, Texas, in conjunction with SPE ESP Workshop. It will mark the completion of Phase XII of the JIP and the initiation of Phase XIII.

Task 1280: Knowledge Management

This task is directed towards making it easier for the Participants to access important Project Information and to conduct a variety of analyses using the data and tools available on the Project website. It has been a key activity during the last several phases. In Phase XII, C-FER's efforts will be focused towards: a) updating and posting the latest training materials; and b) generating tutorials for new Users wishing to learn basic analysis techniques by themselves.

Task 1290: Vendor Interaction

The ESP-RIFTS Participants agree that engaging the Vendors around industry-wide issues is necessary in order to accelerate ESP technology development. Efforts have been made in the past to bring the Vendors to the table to discuss some of these issues, but their level of engagement is still lacking. In Phase XII efforts will be made to try to re-open communication channels with the Vendors, perhaps addressing soft issues first in order to build some trust and then moving towards more technically challenging issues. One possible strategy to foster the relationship is to ask what type of analysis from their own company they would like to see from the ESP-RIFTS database and meet with them to discuss the results.

PROJECT DELIVERABLES AND MILESTONE SCHEDULE

The main Deliverables of Phase XII of the ESP-RIFTS JIP, and target Milestones, include:

- Access to the ESP-RIFTS System, through the Project Web Site (<http://www.esprifts.com>) during this Phase (May 1, 2010 to April 30, 2011).
- Progress Reports, to be issued approximately bi-monthly by e-mail to the Participant's Official Contact.

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- Two Project Meetings, as described in Task 1270 above, and associated minutes and presentation materials.
- A go-forward plan for continuous maintenance and development of the system, as described in Task 1260 above.

PROVISION OF DATA AND DATA CONFIDENTIALITY

Participants shall provide C-FER with information as they, in their sole discretion, determine appropriate. Participants shall clearly identify any part of this information that is to be treated as confidential, and provide written advice to C-FER on any restrictions on C-FER's right to treat this information as Project Information.