MEETING PURPOSE: 01/03/13 SCE-MHI Steam Generator Repair Project Update

The purpose of this meeting is to provide for discussion a proposed plan for development of a Certified Design Specification (CDS) within the next six months.

SUMMARY:

Discussion

- Now that the "Type 3" repair has been technically agreed to, SCE has developed a draft schedule (Attachment 2) for discussion that describes the activities necessary to develop a CDS by July 1, 2013 which is the next critical milestone in long term repair. SCE welcomes MHI comments on the proposed plan.
- ➤ As part of the short term plan, a kickoff meeting with MHI and SCE is needed. SCE is amenable to having the meeting at SONGS or travel to Kobe, whichever MHI deems more productive.
- > SCE is concerned about the overall replacement schedule and wishes to, over the next several months to evaluate the schedule for improvements that may bring installation into the first quarter 2017. This involves:
 - o Developing a Certified Design Specification (CDS) by July 1st 2013.
 - Preparing for and scheduling a kickoff meeting and coordination meetings thereafter every other month (or as needed).
- ➤ Preparations for the meeting include, but not limited to, an Agenda, Division of Responsibilities, Roles and Responsibilities, Level 1 Schedule, and any issues that could impact an overall plan.
- > A comprehensive conceptual design will be needed for development of the CDS.
- ➤ Moving forward, MHI Kobe and SCE need to come to an Engineering Technical Management Agreement by January 7th, 2013 to produce a CDS by July 1st, 2013 to protect overall schedule, and minimize cost.
- > Success of the project depends on being in total agreement with no surprises on either side, MHI or SCE, going forward and during the formal kickoff meeting to be tentatively held at the end of January in Kobe, Japan, with agreement to develop the CDS as a first step.
- > Both MHI and SCE agreed that further discussions are needed to define the

SGR Confidential Page 1

terms and contents of:

- o Procurement Specification, and
- o CDS,

to make clear to both parties (MHI and SCE) the content of the deliverable due on 7/1/13.

Action Items:

- SCE to schedule daily meetings to prepare for SCE / MHI Kobe kick off meeting (Complete).
- ➤ MHI SONGS to convey plan described above with MHI Kobe and ensure agreement. SCE has requested confirmation by 01/07/13.
- > SCE and MHI to develop an Agenda, DOR, R&R, and Level 1 Schedule and any additional requirements to ensure joint understanding.
- > SCE and MHI to communicate and schedule kick off meeting with MHI Kobe.

Attachments: Attendees, Handouts

SGR Confidential Page 2

SAN ONOFRE NUCLEAR GENERATING STATION (SONGS) STEAM GENERATOR REPAIR TEAM (SGR_T) ATTACHMENT – Meeting Attendance Sheet

Steam Generator Repair - Project Update
Meeting Attendees
01/03/12

REDACTED

1/3/2013 1:37 PM

page 1

SGR Confidential

Page 3

SAN ONOFRE NUCLEAR GENERATING STATION (SONGS) STEAM GENERATOR REPAIR TEAM (SGR_T) ATTACHMENT 1 – Agenda



SGR_Team

01/03/2013 @1430 G55 SGR1

| 0 | SIVER ID AN | كرامة أعميا بالم | | 4 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1 | a manage of | e de la companya de | savage (r. D. J. | GS | 5 SGR |
|-----------|------------------------|---|-----------------------|--|-----------------------|---|------------------|--------------------------------|-------|
| Sec | \$ 200 | | N ONOFR | | and the second second | ATING STA | MOITA | | |
| Purp | ose of Mee | | | 10 N 10 N 100 | | | | | |
| | SG Preje | ct update | to delineate | a plan for | ward. | | | | |
| Requ | ulrements f | or Every | Meeting: | | | | | | |
| (#) 1. | • | | • | | | | · | /" | .; |
| | | | | AG | ENDA | | | | |
| | and the second | 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | ting all the country. | | | | | | |
| . * | SG Proje Visit to P | ect plan Kobe, Jap | an | | | | | .° | |
| | o D | ate | ***** | | | | ·, " | | |
| 1 | 4.5 | genda Saabraa | osal (draft) | | | | | | |
| • | Free dis | | osai (urait) | | • | 7 54. | | | • .• |
| | | | | • | 11.1 | | | ** | |
| | | | | | | | | بنید به بنید میشود. | |
| | | | | | | | | | |
| | | 14.1 14.1 | . # | į. | | | 4. | | |
| | | | * 1 | | i i | ·.· | | •• | |
| | | | | | | | | | +111 |
| *** | nan nam | 1.5. | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | | |

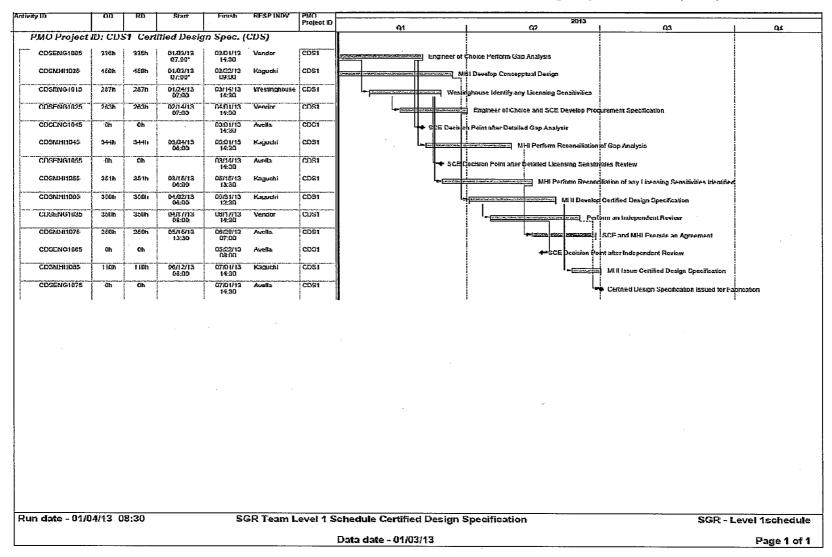
| Action Item | Tas | k text | Planned finish | Completed On | DescEmpl.Resp. |
|-------------|------|--|--|--|----------------|
| | | | | | |
| | | n manifestation de la company de la comp | | | |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | | | Augistusia mitroderis Sentra Septembri | and the second s | |
| | | | | | |

As employees of SONGS, we are committed to demonstrating the right behaviors required of a Nuclear Professional and embracing our Values of:

Integrity - Excellence - Respect - Continuous Improvement - Teamwork

SGR Confidential Page 4

ATTACHMENT 2 - SGR Team Level 1 Schedule Certified Design Specification (CDS)



SAN ONOFRE NUCLEAR GENERATING STATION (SONGS) STEAM GENERATOR REPAIR TEAM (SGR_T) ATTACHMENT 3 – SGR Team Short Term Plan 010113c (1 of 5)

STEAM GENERATOR REPAIR LONG TERM PLAN

PROPOSED
NEAR TERM SCHEDULE

ED AVELLA

01/03/13

STEAM GENERATOR REPAIR LONG TERM PLAN NEAR TERM SCHEDULE

Objective:

Establish a near term plan to jointly develop a Certified Design Specification (CDS) within the first six months of 2013 as a "First Milestone" in a SG Replacement project. The Plan includes:

- · Preserving SCE options and decision making for the next 6 months
- Developing "Off-Ramps" in the event SGR Replacement is not a selected option by SCE Management
- Maintaining the critical path for installation in the first quarter 2017
- · Minimizing spending while achieving an Engineering deliverable (CDS)

Plan:

Provides a six month "Near Term" focused plan to develop a CDS to support manufacturing for a "Type 3" (i.e., Lower Bundle) repair which includes:

- · Completing the initial engineering
- Developing conceptual design
- · Identifying impacts to License Basis analyses
- Completing the prerequisites for final design / manufacturing drawings
- · Completing a final deliverable of a "CDS" in support of a potential SGR project

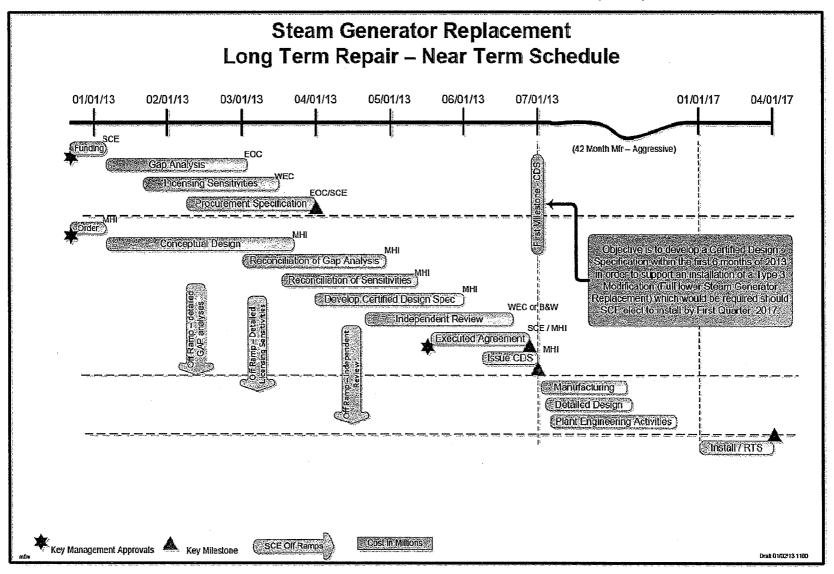
Funding:

Progressive plan for moving forward:

- · Utilizes base staff to extent possible
- · Minimizes additional funding needed, identify off-ramps
- · Establishes cash flow
- · Establishes interim off-ramps to hold on activities

Draft 01/02/13

ATTACHMENT 3 – SGR Team Short Term Plan 010113c (2 of 5)



SAN ONOFRE NUCLEAR GENERATING STATION (SONGS) STEAM GENERATOR REPAIR TEAM (SGR_T) ATTACHMENT 3 - SGR Team Short Term Plan 010113c (3 of 5)

Steam Generator Replacement Long Term Repair - Near Term Schedule - Definitions

SCE / EOC - Primary Responsibility

- * SGR base funding
- * Westinghouse Accident sensitivity analyses
- B&W./W.independent reviews EOC Activities

Gap Analysis:

- Comparison of SGR Specification to industry criteria
- * Evaluation of revisions made to the Specification * Evaluation of Non-Conformances / Deviations

Licensing Sensitivity Analyses:

* Analysis of Primary and Secondary systems for impact of SG design parameter changes on the accident analyses arid plant operating analyses

Procurement Specification:

* Performance related Specification for an SCE PO or Contract with minimum design requirements for new SG

Executed Agreement:

- MHI / SCE legal agreement for issuance of a Contract to provide new Safety Related components to SCE
- Will need to address overall funding of SGR2

Plant Engineering Activities:

- Design Change Packages for new SG
- Heavy Haul evaluation packages
- * Containment access design
- Configuration Control (old out, new in)
- *Coordination of design with NRC and other agencies

MHI - Primary Responsibility

 Internal approval per MHI requirements to begin Safety Related design work within the MHI System

Reconciliation of Gap Analysis:

Ensuring new conceptual design and CDS do not repeat the issues that lead to the current SG non-performance

Reconciliation of Sensitivity Analyses:

Ensuring new conceptual design and CDS will result in a design that can be accommodated by SCNGS accident

Certified Design Specification:

* Adapts the conceptual design into a final design and into a Specification that satisfies ASME requirements for vessel design

Consists of sufficient analysis using ATHOS and other programs to develop the primary analysis parameters (pressures, temperatures, flows, tube spacing, indexing, etc) necessary to issue a CDS and initiate manufacturing drawings

Detailed cesign and Manufacturing

- Order entry or the necessary activities within MHI to initiated safety related design and manufacturing activities
- Detailed design activities to develop the conceptual design into final design and manufacturing level drawings
- Manufacturing of all components from forging through assembly

* Typical SGR which includes: deliver, prepare, haul, lift, install connect, inspect, test, return to service

Independent

Independent Review:

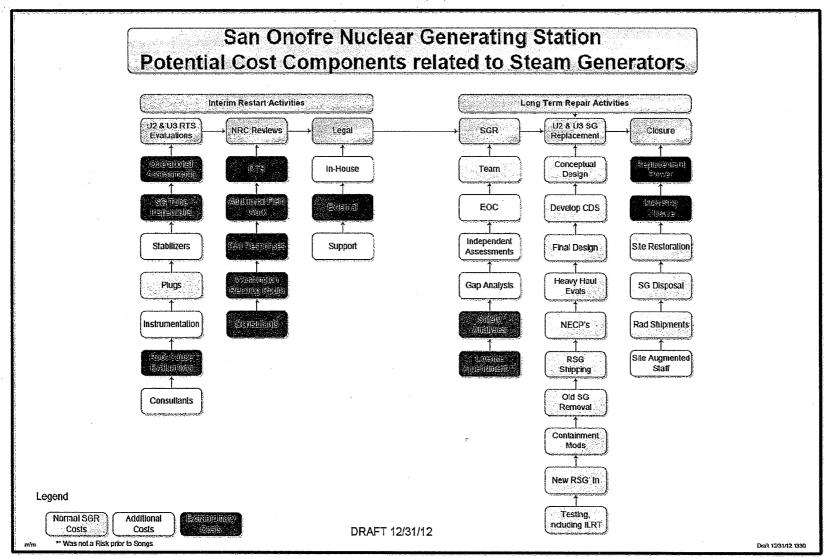
 Includes independent review of conceptual design. sensitivities resolution, gap analysis resolution, and CDS. To be done by a company with proven SG cesign experience with unfettered review

Icensing Sensitivities:

Review of design with respect to 10CFR50.59 and License Amendment requirements by SCE Site Licensing, Independent Licensing Expert, or combination

Draft 12/3:/12 1330

ATTACHMENT 3 – SGR Team Short Term Plan 010113c (4 of 5)



ATTACHMENT 3 – SGR Team Short Term Plan 010113c (5 of 5)

