

**Texas Commission on Environmental Quality  
New Technology Implementation Grant (NTIG) Program  
Quarterly Project Status Report**

**Contract Number:** 582-11-13126-3225

**Grantee:** General Compression

**Report for the Monthly period:** Q3 2013 (Jul-Sept 2013)      **Date Submitted:** October 8, 2013

**Section I. Accomplishments**

*Provide a bulleted list of project accomplishments as well as a description of their importance to the project.*

General Compression submitted Amendment Request No. 04 to TCEQ on August 22, 2013, requesting an extension of the deadlines for submissions under Tasks 4, 6 and 7 to the end of the contract period, less any period necessary for TCEQ review and approval. TCEQ issued Contract Amendment No. 04 on September 6, 2013. This amendment extends the final deadline for submission and TCEQ approval of: Tasks 1-5 to December 31, 2013; Task 6 to January 31, 2014; and Task 7 to April 30, 2014.

**Task 1**

- Approved by February 6, 2013 Letter.

**Task 2**

- Approved by June 12, 2012 Letter.

**Task 3**

- Approved by April 18, 2013 Letter.

**Task 4**

- Over 1000 operating hours have been achieved: over 950 for POC; and over 50 for ASP. GC's engineering team is currently working on the Task 4 report, which will include a summary of the performance and durability of ASP and POC for the 1000 hours of operation, problems experienced during the 1000 hours of operation, proposed solutions to the problems, and whether the GCAES is ready for commercial operation. GC expects to submit the Task 4 report well in advance of the extended deadline.

**Task 5**

- GC's engineering team is currently working on upgraded ASP design. GC expects to submit the revised Task 5 report, which will include plans, specifications and parts list reflecting both the original design and the upgrades, well in advance of the extended deadline.

**Task 6**

- GC's in-house engineering team (assisted as requested by third-party consulting engineers) has completed design work for the storage device, while GC's in-house purchasing team has procured a number of the components for the upgraded ASP. As the project's designated EPC for its wind turbine generator, RES Americas has completed procurement, installation, and commissioning of the WTG.

**Section II: Problems/Solutions**

*Problem(s) Identified: Report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project.*

- The redesigned rolling sock seal has not met its design specifications, so will need to be replaced for the first stage to function at full design pressures.

*Proposed Solution(s): Continue to report any possible solution(s) to the problems that were considered/encountered*

- Additional design changes – more fundamental than those previously undertaken – have been made for the next replacement seal.
- Unlike with the prior seal failure, the machine has been able to accumulate operating hours even after this seal's problems became evident, albeit at lower pressures, slower stroke speeds and shorter stroke lengths.

**Section III. Goals and Issues for Succeeding Period:**

*Provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen:*

- Complete and receive approval for Task 4 (operating hours) and Task 5 (upgraded ASP design, specifications and parts list) before receiving the Notice to Proceed to pursue Task 6 and Task 7.

*R.J. Lyman* – President

*Date:* October 8, 2013

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*Authorized Project Representative's Signature*