

**From:** 최경식(Kyoungsik Choi) 부장 두산중공업 [<mailto:kyoungsik.choi@doosan.com>]  
**Sent:** Wednesday, September 20, 2017 8:09 PM  
**To:** Gascot Lozada, Ramon <[Ramon.GascotLozada@nrc.gov](mailto:Ramon.GascotLozada@nrc.gov)>  
**Cc:** 박세완(Sewan Park) 상무 두산중공업 <[sewan.park@doosan.com](mailto:sewan.park@doosan.com)>; 박황윤(Hwoangyoon Park) 부장 두산중공업 <[hwoangyoon.park@doosan.com](mailto:hwoangyoon.park@doosan.com)>; 김정선(Jeongsun Kim) 부장 두산중공업 <[jeongsun.kim@doosan.com](mailto:jeongsun.kim@doosan.com)>; Kavanagh, Kerri <[Kerri.Kavanagh@nrc.gov](mailto:Kerri.Kavanagh@nrc.gov)>; McIntyre, Richard <[Richard.McIntyre@nrc.gov](mailto:Richard.McIntyre@nrc.gov)>; Burke, John <[John.Burke@nrc.gov](mailto:John.Burke@nrc.gov)>; Ortega-Luciano, Jonathan <[Jonathan.Ortega-Luciano@nrc.gov](mailto:Jonathan.Ortega-Luciano@nrc.gov)>; Sakadales, Antoinette <[Antoinette.Sakadales@nrc.gov](mailto:Antoinette.Sakadales@nrc.gov)>; Musser, Randy <[Randy.Musser@nrc.gov](mailto:Randy.Musser@nrc.gov)>  
**Subject:** [External\_Sender] FW: Response with regard to URI Doosan

Dear Ramón L. Gascot Lozada

My name is Kyoungsik Choi, General Manager of Doosan QA Team.

After the last NRC Inspection in 2014, I took over the position of QA Team Gen. Mgr. as Mr. D.S.Lee has been promoted to QA Vice President.

So, you'd better contact me for QA matters from now on.

For the URI identified during the 2014 Inspection, we would like to ask you a favor to wait our response for some time.

So, we will check the status of this issue again and inform you of the status.

Thank you for your cooperation.

Best Regards,

Kyoung Sik Choi  
QA General Manager  
Phone : 82-010-9335-2390  
Office : 82-55-278-3393

**From:** Gascot Lozada, Ramon [<mailto:Ramon.GascotLozada@nrc.gov>]  
**Sent:** Wednesday, September 20, 2017 4:15 AM  
**To:** 이동수(Dongsoo Lee) 상무 두산중공업 <[ds.lee@doosan.com](mailto:ds.lee@doosan.com)>  
**Cc:** 김정선(Jeongsun Kim) 부장 두산중공업 <[jeongsun.kim@doosan.com](mailto:jeongsun.kim@doosan.com)>; 박세완(Sewan Park) 상무 두산중공업 <[sewan.park@doosan.com](mailto:sewan.park@doosan.com)>; 김석관(Sukkwan Kim) 자문 두산중공업 <[sukkwan.kim@doosan.com](mailto:sukkwan.kim@doosan.com)>; 박황윤(Hwoangyoon Park) 부장 두산중공업 <[hwoangyoon.park@doosan.com](mailto:hwoangyoon.park@doosan.com)>; Kavanagh, Kerri <[Kerri.Kavanagh@nrc.gov](mailto:Kerri.Kavanagh@nrc.gov)>; McIntyre, Richard

<[Richard.McIntyre@nrc.gov](mailto:Richard.McIntyre@nrc.gov)>; Burke, John <[John.Burke@nrc.gov](mailto:John.Burke@nrc.gov)>; Ortega-Luciano, Jonathan <[Jonathan.Ortega-Luciano@nrc.gov](mailto:Jonathan.Ortega-Luciano@nrc.gov)>; Sakadales, Antoinette <[Antoinette.Sakadales@nrc.gov](mailto:Antoinette.Sakadales@nrc.gov)>; Musser, Randy <[Randy.Musser@nrc.gov](mailto:Randy.Musser@nrc.gov)>

**Subject:** URI Doosan

Greetings,

My name is Ramón L. Gascot and I'm contacting you on behalf of the USNRC Quality Assurance Vendor Inspection Branch-2, concerning the Unresolved Item (URI) documented in NRC Inspection Report (IR) 99901373/2014 (attached) identified to Doosan Heavy Industries and Construction in the NRC Vendor Inspection Report dated, September 18, 2014.

Page 13 and 14 of the IR identified that Unresolved Item 99901373/2014-201-01 was issued related to the Doosan disposition of certain NCRs as "use-as-is" without an adequate documented technical justification. At the time of the inspection the requirement of additional tensile testing requirements after post weld heat treatment (PWHT) remained in place and Doosan had continued procurement and fabrication for AP1000 projects. Doosan had continued to generate NCRs for this issue, which were then dispositioned as "use-as-is" by WEC without providing adequate justification for Doosan not meeting these additional specification requirements as it relates to the applicable design.

During the inspection, the NRC team questioned Doosan about the lack of engineering justification for their disposition of the nonconformance for only performing the tensile test in the as welded condition. Doosan explained that they could not meet the additional WEC process specification requirements, which had become a recurring nonconformance. The NRC inspection team discussed this issue with both Doosan and the WEC Doosan on-site resident inspector to understand the rationale for this method of NCR disposition. WEC indicated that they were going to perform an engineering design change evaluation and issue an engineering design change notice to clarify the specification and remove the additional process specification requirements. At the conclusion of the inspection, Doosan had not received the proposed design change notice from WEC. Therefore, this issue was identified as Unresolved Item 99901373/2014-201, pending NRC review of the completed Doosan evaluation.

Could you please describe the Doosan corrective action and any WEC disposition and how Doosan closed the issue concerning the Doosan disposition of certain NCRs described in the IR as "use-as-is" without an adequate documented technical justification.

Regards,

***Ramón L. Gascot Lozada,***

Structural Engineer

U.S. Nuclear Regulatory Commission

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