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To: "Mohd Hamdi" <hamdi@um.edu.my>
Subject: Thank you for the review of JMES4085

Ref. JMES4085

Dear Prof. Hamdi

Title: Evaluation of mechanical integrity on the brazing joint of a tube-type heat exchanger with considering local material properties
Author(s): seok-hoon kang; Sanghu Park, Ph.D.; june kee min; jongrae cho; man-yeong Ha

Thank you for your review of this manuscript.

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Katrina Newitt
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JMES4085
"Evaluation of mechanical integrity on the brazing joint of a tube-type heat exchanger with considering local material properties"
Original Submission

Mohd Hamdi (Reviewer 3)

<table>
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<tr>
<th>Reviewer Recommendation Term:</th>
<th>Reject for resubmission after rewrite</th>
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<tr>
<td>Manuscript Rating Question(s):</td>
<td>Scale</td>
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<tr>
<td>Please rate the quality of the article (excellent = 10, poor = 1)</td>
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<td>[1-10]</td>
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Comments to Editor:

CONFIDENTIAL COMMENTS FOR THE EDITOR:
(Please note that such comments should refer to the work or the Journal and not the author)

Comments to Author:

Overall comments
1. The authors didn't explain clearly the importance and originality of the study.
2. The flow and arrangement of the paper should be re-arranged. The theoretical, experimental methods, results/discussion should be divided into different sections.
3. The objectives of the study are not clear and not focused.
4. Although there are a lot of work had been done, the discussions/reason explanation on the results are not sufficient.
5. It is suggested that this paper should focus on only a few subjects/areas/sections but with substantial discussion.

(Detailed comments are given for keywords, section 1 and section 2 only )

Comments on keywords
6. "Keyword: Blazed Joint,..." Should be "Brazed Joint".

Comments on section 1. Introduction
7. "For the past several decades, the temperature of the earth has increased sharply, thus causing environmental issues [1]." This is common knowledge. Don't need to put reference.
8. "....So far, many methods to evaluate the mechanical reliability have been suggested [10-12]."
The authors should explain the methods that currently available in the literature. Explain the problems or weaknesses or issues on available method that this study is going to solve.

9. The authors should explain the problem with the current researches, the importance of the study, what kind of problems this study is going to solve, and the originality of the research.
Comments on 2.1 Turbulent flow analysis model

10. "The considered models in this work included the k-ε model [13-16], the SST (shear stress transport) model [17], and the LES (large eddy simulation) model [18-20]." Explain why these three models are considered. Why not choose any other turbulent models in the literature?

11. "As can be seen in Fig. 1(a), the analysis model for selecting a turbulent model was a single U shaped tube (diameter: 1.5 mm, thickness: 0.12 mm). The U-shape tube's air flow field was 50 mm high (H), 20 mm-wide (W), and 300 mm long (L)." For easy understanding, these parameters should be put in the Fig. 1(a)

12. "According to the boundary condition, an external air flow continuously moved in with a velocity of 14.5 m/s, as required by one of the design specifications of an aircraft gas turbine." Should state the reference.

13. "To compare the three turbulent models of CFD analysis, the velocities of each turbulent model were compared at 0.02 sec and on a 50 mm-high point, which was 10 mm away from the x-axis of the first row of the U-shaped tube, as shown in Fig. 2(a) and 2(b)". The parameters should appear in the figure.

14. The authors should separate the simulation setup and simulation results in different section for easy understanding.

15. "Generally known that the k-ε model has two main weaknesses to predict a turbulent flow exactly; it over-predicts the shear stress in adverse pressure gradient flows and it requires near wall modification." Should put the reference.

16. It is advisable to put a new section to discuss on the evaluation of the models for easy understanding.

17. Fig. 3(a) should state the reference.

18. "For a quantitative evaluation of the turbulent model with the three reviewed models, as shown in Fig. 3(a), data prepared by the previous study was utilized; this data showed the flow pattern around a straight tube by using the relationship between Re (Reynolds number) and St (Strouhal number) [21]. In general, the flow pattern occurring around a tube can be expressed as a combination of repetitive periodic functions. Therefore, the frequency of a flow pattern can be identified through Fast Fourier Transform (FFT) analysis. According to Fig. 3(a), when passing a U-shaped tube, Re is calculated at 1,435 as can be seen in Equation (1), and the corresponding St is roughly between 0.20 and 0.225. (In general, if Re is within the range of 300 and 3×105, St amounts to 0.21 on average.) As St is related to the value of the vortex shedding frequency around a cylinder, the flow frequency around the tube can be calculated by using the St number:" This paragraph should be rearranged for easy understanding.

19. "However, the LES model is thought to be better in expressing the complex turbulent flow by judging the flow pattern shown in the analysis result." How do you judge it? Please elaborate. Should conduct an experimental verification.

20. "This study conducted fluid-structure interaction analysis via the application of the LES model for the analysis. In addition, in order to check the mesh dependency, one, four, seven, and ten million elements were generated in the analysis. As a result, it was determined that the velocity distribution and the flow pattern converged at the element numbers of seven and over one million (See Fig. 4)." This part should be in "Simulation setup" section. The authors should not mix theoretical part, experimental and/or simulation setup part, and result and discussion part.

Comments on 2.2 Two-way FSI Analysis

21. "Table 1 summarizes the main material properties identified by the test." Explain how the material properties were used in the ALE equation.

22. "The same conditions as those mentioned previously in section 2.1 were given for analysis". What kind of conditions are you referring to? Is it the U-tube parameter? Or the boundary condition? P

23. Result in Fig 5(b) is already appeared in Fig. 7. Fig 5(b) is unnecessary.
24. As time-transient analysis was applied, it was found that the U-shaped tube vibrated in the flow direction [Fig. 5(a), y axis direction] ...." The flow direction is in x axis direction, right? Do you referring to Fig. 5(b)? It is confusing. Please rephrase your explanation for easy understanding.

25. "It is now thought that if there were enough analysis time, the tube would go into a steady state condition and its deformation value would converge to a specific value." The authors need to proof this statement by doing the simulation until the steady state is achieved.

Comments on 2.3 Experimental Verification of Analysis Model -

26. Fig. 6 is not clear. Should be rearranged.

27. High-speed camera set up is not mention such as frame per second, magnification or resolution, etc.

28. Results from the picture taken from high-speed camera should be shown.

29. In Fig. 7, plotted point from experimental results should be shown.