



## SDI FINAL EVALUATION FORM 1.1

### PART 1:

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	Ms_PSIJ_23750
Title of the Manuscript:	<b>PERFORMANCE OF 19.75% UO<sub>2</sub> FUEL MATERIAL IN THE CORE OF NIGERIA MINIATURE NEUTRON SOURCE REACTOR (MNSR)</b> <b>COMPUTATIONAL STUDY OF 19.75% UO<sub>2</sub> FUEL FOR THE CORE CONVERSION OF NIGERIA RESEARCH REACTOR-1 (NIRR-1) FROM HEU TO LEU</b>
Type of Article	<b>Original Research Article</b> <b>Case Study Article</b>

### PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>Reviewer's comments</p> <p>Please supply all abbreviation in the begging of the paper to make readers understand easy the submitted paper.</p> <p>Please make sure which title is correct?</p> <p>This paper is not regarded as an original research article, but case study paper.</p> <p>In abstract, use has been made --- is curious, please rewrite SCALE 6.1 code system and VENTURE-PC code system has been used for the core conversion of-----.</p> <p>In introduction many experimental results were presented, so rewrite introduction. For example description of Al-alloy cladding whose thickness is 0.6 mm is not appropriate for introduction, but experimental.</p> <p>Tables 2, 3, 4, 5, 6, and 7, please supply variation and put the number you used for the experiments.</p> <p>Figures 1 to 6 and Tables 1 to 10 should present in Results and Discussion, not in Materials and Method, so please rewrite.</p>	<p><b>All the word abbreviated in the work has been rewrite in full.</b></p> <p><b>The correct title is "COMPUTATIONAL STUDY OF 19.75% UO<sub>2</sub> FUEL FOR THE CORE CONVERSION OF NIGERIA RESEARCH REACTOR-1 (NIRR-1) FROM HEU TO LEU".</b></p> <p><b>The correction has been effected in the abstract.</b></p> <p><b>The correction has been effected in the introduction.</b></p> <p><b>The exact number of values used in the experiment has been specified in the tables, the cladding materials for the two cores is not the same, which give us different number of nuclides, this leads to variation in the number of values presented for the HEU and LEU cores.</b></p> <p><b>The figures and tables has been moved to the appropriate location (Results and Discussion).</b></p>