



ECCC RECOMMENDATIONS - VOLUME 4 Part II [Issue 1]

**GUIDANCE FOR THE EXCHANGE
AND COLLATION OF CREEP CRACK
INITIATION TEST DATA FOR
ASSESSMENT PURPOSES**

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**GUIDANCE FOR THE EXCHANGE AND COLLATION OF CREEP CRACK
INITIATION TEST DATA FOR ASSESSMENT PURPOSES**

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ABSTRACT

Volume 4 part II was prepared by ECCC-WG1.2 in order to:

- outline a general approach for the collation and exchange of creep crack initiation (CCI) data for parent material within ECCC,
- introduce a digital working tool for data collation and exchange (i.e. a Microsoft Excel workbook, containing several spreadsheets) formatted to provide easy and user friendly collation and exchange of CCI meta and test data within ECCC,
- standardise the handling of CCI data within ECCC, and

The CCI data exchange workbook is contained as Attachment A to this document.

The design and use of this data exchange workbook has been validated in field trials by ECCC-WG1.2 to guarantee, as far as possible, its reliability and applicability

Feedback on the use of this document, from both within ECCC and elsewhere, is sought so that it may be improved in subsequent issues. Please contact the editor through:

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INTRODUCTION

ECCC Volume 4 Part II introduces a data workbook for the collation and exchange of creep crack initiation (CCI) test results and the data necessary to predict times to the onset of crack initiation from pre-existing defects in structures subject to steady loading at high temperatures. This document has been prepared by the WG1.2 working group as one of a number considering the terminology (Vol.2 Part IV), testing practices (Vol.3 Part IV) and component assessment procedures (Vol.7) relating to CCI data.

In general, CCI data are collected as part of a standard creep crack growth test and the data workbook also provides the opportunity to store crack propagation data.

The CCI data workbook is contained in the attached file ***CCIdat3.xls***.