

ADDENDUM

to

USER'S MANUAL (ERMS #245734)

for

SECOTP2D Version 1.41a

ERMS #561167

November 2013

Author:	Amy Gilkey		11/19/2013
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
Technical Reviewer:	Todd R. Zeitler		11/19/2013
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
QA Reviewer:	L. Eugene Safley		11/20/2013 ²⁰ 11/20/13
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
Responsible Manager:	Sean Dunagan		11/21/2013
	<i>Print</i>	<i>Signature</i>	<i>Date</i>
SCM Coordinator:	Jennifer Long		11/21/13
	<i>Print</i>	<i>Signature</i>	<i>Date</i>

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INTRODUCTION

This is an addendum to the User's Manual for SECOTP2D Version 1.41 (ERMS #245734). The purpose of this addendum is to document the correction of SPR 97-017 (ERMS #247875).

Software Identifier

Code Name: SECOTP2D
Version: 1.41a
Run Platform: HP Alpha/Open VMS 8.2

LIMITATIONS ON BOUNDARY CONDITIONS

An error was discovered in the treatment of boundary conditions in SECOTP2D. This error, documented in SPR 97-017 (ERMS #247875), is present in SECOTP2D Versions 1.43, 1.41A, 1.41, 1.31, 1.30, and 1.21ZO. The error occurs when Neumann and Dirichlet boundary conditions are mixed on the left and right boundary of the problem domain. Such boundary conditions can occur when invoking the automatic boundary condition in a heterogeneous flow field, or by user specification. The automatic boundary condition option should not be used; the left and right boundaries should be assigned a single boundary condition type (the value may vary.) The boundary conditions are defined in the PRESECOTP2D input control file with the *BOUND keyword, as described in Section 7.4 of the PRESECOTP2D Version 1.22 User's Manual (ERMS #245963).

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