



August 6, 2019

**Atech Turbine Components, Inc.**

1 St. Mark Street  
Auburn, MA 01510  
USA

**RE: Confirmation of the following Repair Development Approval:**

**Approval of the facility for the PW100 Series Outer CC Liner Assy Repairs:**

- a) Fuel nozzle bores, repair of**
  - b) Patch-type, weld repair**
  - c) Dual-lip cooling ring replacement using laser welding**
  - d) Cooling ring sections or complete replacement**
- to the listed part numbers in the attached appendix.**

Dear Sirs:

This is to confirm that,

**Atech Turbine Components, Inc.**

**Auburn,  
USA**

have demonstrated to our satisfaction that they have the necessary knowledge, skills, facilities and controls to successfully perform **PW100 Series Outer CC Liner Assy Repairs:**

- a) Fuel nozzle bore repair**
- b) Patch weld repair**
- c) Dual-lip cooling ring replacement using laser welding**
- d) Cooling ring sections or complete replacement**

on the part numbers listed in Appendix 1.

The demonstrated process is defined as **CL-3005E Rev: 05** dated **1 August 2019** a copy | of which has been deposited with Pratt & Whitney Canada Corp., Repair Development. This copy will be the document of reference in any dispute. Significant changes to, or deviations from, this process are not permitted without the written approval of the Pratt & Whitney Canada Repair Development Manager. Refer to Appendix 2 for list of significant changes related to this process.

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The intent of process **CL-3005E** will be reflected in the applicable engine CIR Manual. This letter is an authorization to proceed pending issue of the above revision. Use of this authorization is subject to compliance with local airworthiness authority requirements and all certificates issued for a given part repaired with the subject process must reflect the process number. Any subsequent part numbers introduced beyond those indicated in this letter require P&WC's specific approval.

Failure to maintain satisfactory controls and quality, to provide adequate service, or to adhere to the executed Repair Process Agreement, could result in loss of this approval and deletion of the supplier's name from the CIR Manual.

Revalidation of this approval will be required after two (2) years of inactivity.

Yours truly,

PRATT & WHITNEY CANADA CORP

This Letter has been electronically approved in accordance with the Customer Support Operating Procedure P3

*Jean-Philippe Legendre*  
Manager  
Component Repair Development

*Peter Boyd*  
Customer Support DAA  
DAA# 13 / DAO # 93-Q-01

C/C A. Laberge

Engine DAA

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**REVISION HISTORY**

Rev	Changes
	Revision dated 6 <sup>th</sup> August 2019 by Terry Shaw reviewed by T. Tosun. -Supplier process revised to incorporate 1724002-SRR-005 Rev. 05 requirements.
03	Revision issue dated 20 <sup>th</sup> February 2015 by Grzegorz Tonderys. -Supplier process CL-3005E Rev. 04 approval to align with the 1724002-SRR-005 Rev.04 -Document updated to latest template standard
02	Revision issue dated 28 June 2013, by Grzegorz Tonderys. -Supplier process HC-101 Rev. D approval to align with the 1724002-SRR-005 Rev.03 -AL has been updated to latest template standard -added Tables "List of Applicable Part Number ..." to Appendix 3
01	Revision issue dated 4 December 2000

**Export Controls level applicable:**

Export Control Classification		
<b>Contains no technical data</b> <input checked="" type="checkbox"/>		
<p>* Data is subject to the jurisdiction of the Export and Import Controls Bureau of the Department of Foreign Affairs and International Trade of Canada, Department of Commerce of the United States and/or Department of State of the United States.</p> <p>** Data is not subject to the jurisdiction of the Department of Commerce of the United States or Department of State of the United States but would become subject if exposed to any US involvement.</p> <p>*** Polish / European Union jurisdiction</p>	<b>Regulation</b>	<b>Classification Number</b>
	Canadian ECL (s) *	
	ECCN(s) *	
	P-ECCN(s) **	
	USML (ITAR) *	
	P-USML **	
	PL/UE ***	
<p><i>dd-mm-yyyy</i> Date: 20-02-2015 Badge: P526723</p>		

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**Appendix 1**

**List of applicable Part Numbers**

(Refer to 1724002-IR-002)

3037288	3037288 (SB20763)	3040075	3040078
3040442	3040443	3105431-01	3105431-01 (SB20763)
01R3105431-01	3106021-01	3106021-01 (SB20763)	3110774-01
3112378-01	3112378-01 (SB21598)	3112379-01	3112379-01 (SB21598)
3052957-01	3052959-01	3053134-01	3053153-01

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### Appendix 2

Following is a list of Significant Operations related to this approved process. Changes to these operations will be considered significant.

Significant Process Changes may not be limited to changes to the following operations and can be defined as a change in the repair process of an item that could degrade or improve the quality, durability or performance of the item, or that could affect the subsequent processing. The integrity of the process must be maintained with the significant process changes. Such changes shall be documented and must be approved by the Repair Development.

Welding Technique including Schedules or Sub Contactor (EB Weld Etc.)
filler material
heat treatment

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**Appendix 3**

Supplier Name: <b>Atech</b>		
Supplier Code: <b>A0054</b>		
Process No.: <b>CL-3005E</b>		Revision: <b>05</b>
Date of latest revision: 1 August 2019		Date of Approval: <b>6 August 2019</b>
Part Name: <b>Outer CC Liner Assy</b>		Engine Model: <b>PW100</b>
SRR No.: 1724002-SRR-005		Revision:05
SR No. 1724002-SR-002		Revision:04
DCR required : <b>No</b>	PWC DCR No : <b>N/A</b>	Job No.: 22-2599
Repair description: <b>Outer CC Liner Assy Repairs:</b> <b>a) Fuel nozzle bores, repair of</b> <b>b) Patch-type, weld repair</b> <b>c) Dual-lip cooling ring replacement using laser welding</b> <b>d) Cooling ring sections or complete replacement</b>		

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**List of applicable Part Numbers and  
Replacement Details required for the repair**

<b>Top</b>	<b>Repair Scheme</b>	<b>Detail P/N</b>	<b>Description</b>	<b>Quantity Required</b>
<b>See Appendix 1 Cooling Ring Repairs</b>	"C"	3052954-01	Dual lip cooling ring assy	1
	"D"	3103757-01	Cooling ring "A"	1
	"D"	3105422-01	Cooling ring "B"	1
	"D"	3103746-01	Cooling ring "C"	1
	"D"	3103747-01	Cooling ring "E"	1
	"D"	3104855-01	Corrugated Strip	1

<b>Top</b>	<b>Repair Scheme</b>	<b>Detail P/N</b>	<b>Description</b>	<b>Quantity Required</b>
<b>See Appendix 1 Patch Repair</b>	"B"	3104852-01	Corrugated strip (LED outer skin)	One detail may repair many Liners it depends on the patch sizes of each Liner
	"B"	3104850-01	Patch type (LED inner skin)	
	"B"	3112387-01	Patch type (LED inner skin)	
	"B"	3112389-01	Patch type (LED outer skin)	
	"B"	3112391-01	Patch type (outer wrapper)	