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P&WC 11524 (2020-11) MRO Information Management (9290)

S.I.L. NO.
GEN-166

SERVICE INFORMATION LETTER

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Subject: **Critical Component Accumulated Cycle Counting**

Applicability: **All P&WC products except PW900 and APS-Model APU**

P&WC has been made aware that some Maintenance Tracking Service providers provide tools and/or services that automate the calculation of accumulated cycle counts on critical parts listed in the airworthiness limitations (AWL) that are part of the engine instructions for continued airworthiness (ICA). An instance has recently been reported where the process and tool used resulted in an incorrect (i.e. under-calculated) accumulated cycle count.

An engine model's AWL, which provides mandatory component life limits and other limitations, is approved by the certifying civil aviation authority and must be complied with to ensure the continued airworthiness of the product. It is imperative to maintain robust accumulated cycle and flight hour counting practices (tools, software applications, processes and procedures) and maintenance logs to ensure accuracy in calculating and recording cycle and flight hour accumulation on critical components. Failure to comply with the AWL is a regulatory noncompliance and renders the product non-airworthy. Continued operation of critical components beyond their published AWL limits could lead to an unsafe condition.

This SIL is issued to remind operators of the importance of the AWL and that the only P&WC approved method for calculating accumulated cycles is published in the respective AWL for each P&WC engine model, which is approved by Transport Canada Civil Aviation (TCCA). It is the operator's and/or maintenance organization's responsibility to ensure that any tool not specifically referenced in the ICA is suitable and accurate for the purpose. No accumulated cycle counting tools offered by Maintenance Tracking Service providers are referenced in any P&WC engine AWL and, therefore, no counting tools or services are recognized by P&WC.

P&WC, therefore, recommends that operators and maintainers review their critical component accumulated cycle counting processes and procedures, confirm that they are aligned with P&WC AWL and the certifying authority's approved requirements and implement corrective action as necessary.

This Service Information Letter is valid until superseded or cancelled by revision.

ISSUED: 23-Jun-2021

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Please contact your local Field Service Manager or P&WC Customer First (CFirst) center (1-800-268-8000, CFirst@pwc.ca) should you require assistance or clarification on P&WC engine AWL requirements.

Sincerely,



Tammy Stupalo
Deputy Chief Engineer
Customer Service
PRATT & WHITNEY CANADA CORP

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