



# Software Verification Results

for the

**<Company Name> <Program Name>**

Document No: <Doc Number>

Revision: -

\_\_\_\_\_  
<Name>, Program Manager

\_\_\_\_\_  
Date

\_\_\_\_\_  
<Name>, Technical Project Lead

\_\_\_\_\_  
Date

\_\_\_\_\_  
<Name>, Engineer

\_\_\_\_\_  
Date

\_\_\_\_\_  
<Name>, Quality Assurance Engineer

\_\_\_\_\_  
Date

---

### Notice

This document and the information contained herein are the property of <company name>. Any reproduction, disclosure or use thereof is prohibited except as authorized in writing by <company name>. Recipient accepts the responsibility for maintaining the confidentiality of the contents of this document.

---



## Table of Contents

Section	Page
<b>1.0 INTRODUCTION .....</b>	<b>7</b>
1.1 Purpose .....	7
1.2 Scope .....	7
1.3 Deviations .....	7
1.4 Acronyms and Abbreviations .....	7
1.5 Applicable Documents .....	7
1.5.1 External Documents .....	7
1.5.2 Internal Documents .....	8
<b>2.0 REVIEW RESULTS .....</b>	<b>10</b>
2.1 Software Life Cycle Phase Reviews .....	10
2.2 Software Data Item Reviews .....	10
2.3 Summary of Reviews .....	11
<b>3.0 ANALYSIS RESULTS .....</b>	<b>12</b>
3.1 Analysis Item Identification .....	12
3.2 Requirements Coverage and Traceability Analysis .....	12
3.3 Linting .....	12
3.4 Structural Coverage Analysis .....	12
3.4.1 Statement Coverage .....	12
3.4.1.1 Statement Coverage Results .....	12
3.4.1.2 Statement Coverage Analysis .....	13
3.4.2 Decision Coverage .....	13
3.4.2.1 Decision Coverage Results .....	13
3.4.2.2 Decision Coverage Analysis .....	13
3.4.3 MC/DC Coverage .....	14
3.4.3.1 MC/DC Coverage Results .....	14
3.4.3.2 MC/DC Coverage Analysis .....	14
3.5 Data and Control Coupling Coverage .....	14
3.5.1 Data Coupling and Control Coupling Coverage Results .....	14
3.5.2 Data Coupling and Control Coupling Analysis .....	15
3.6 Software Characteristics - Integration Analysis .....	15
3.6.1 Math and Overflow Analysis Results .....	15
3.6.2 Throughput Analysis .....	15
3.6.3 Timing Analysis .....	15
3.6.4 Memory Analysis Results .....	16
3.6.5 Stack Analysis Results .....	16
3.6.6 Link Analysis Results .....	16
3.6.7 Interrupt Analysis Results .....	16
<b>4.0 SOFTWARE VERIFICATION CASES AND PROCEDURES RESULTS .....</b>	<b>17</b>
4.1 Confirmation of General Test/Data Completion Requirements .....	17
4.2 Verification Test Log .....	17
<b>5.0 SOFTWARE TRACEABILITY MATRIX .....</b>	<b>19</b>

<b>6.0</b>	<b>SYSTEMS ACTIVITIES AND EVIDENCE</b> .....	<b>20</b>
6.1	Validation of Derived Requirements .....	20
6.2	System Issues Raised by Software Processes.....	20
<b>Appendix A</b>	<b>TEST CASE RESULTS RECORD</b> .....	<b>21</b>
6.2.1	APC_PIC_SW-TC-0001 .....	21
<b>Appendix B</b>	<b>COVERAGE ANALYSIS RESULTS RECORD</b> .....	<b>23</b>
<b>Appendix C</b>	<b>COVERAGE ANALYSIS RESOLUTION</b> .....	<b>24</b>
<b>Appendix D</b>	<b>TOOL QUALIFICATION VERIFICATION LOG</b> .....	<b>25</b>

**List of Figures**

Figure 3-1. Linting Results.....	12
----------------------------------	----

**List of Tables**

Table 1-1. External Documents .....	8
Table 1-2. Internal Documents.....	8
Table 2-1. Summary of Review Results .....	11
Table 3-1. Statement Coverage Results .....	13
Table 3-2. Decision Coverage Results .....	13
Table 3-3. MC/DC Coverage Results .....	14
Table 3-4. Data Coupling and Control Coupling Coverage Results .....	14
Table 4-1. Verification Test Log.....	17
Table 5-1. Requirements to Test Results Traceability .....	19