



Flight AIE825
CYZG
DAWN

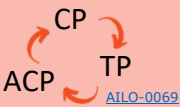
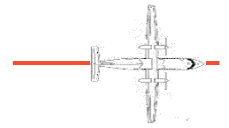
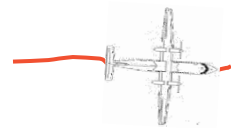
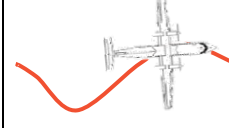
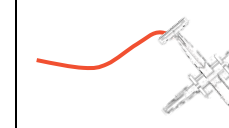
CM1 _____
CM2 _____

Date _____

FLIGHT INFORMATION				
AIRPORT SETTING		AIRCRAFT SETTING	DH8-100	DH8-300
Airport	CYZG	Aircraft OEW	23253 LBS	27 304 LBS
Runway	21	Pax Weight (total)	1850 LBS (10)	6000 LBS (30)
Gate	Ramp	Bag & Cargo Weight	750 LBS	1844 LBS
Takeoff Alt	CYPX	Fuel MIN DIV	3000 LBS LBS	2500 LBS 1690 LBS
Emergency Return	CYPX	Aircraft TOW	28853 LBS	37 548 LBS
RUNWAY SETTING		Center of Gravity	MAC 28%	MAC 32%
		MEL / CDL	N/A	
RWY Condition	WET	De-Ice & Anti-Ice	Type 1	
Braking Action	good	Dangerous Goods	UN 1282 Pyridine 3L (Bay #2)	
RWY Lighting	5	Doors Open	PAX BAGGAGE	
WEATHER SETTING		CLEARANCE		
Time of Day	DAWN	UNCONTROLLED		
Altimeter	29.33			
Wind	300/25	TAXI CLEARANCE		
Temperature	2/0	Ramp to RWY21		
Visibility	1/2 SM			
Ceiling	OVC002			

FLIGHT SUMMARY	
CM2	CM1
<ul style="list-style-type: none"> FLIGHT DECK PREPARATION ABORDED ENGINE START ENGINE START TAXI REJECTED TAKEOFF TAKEOFF – ENGINE FAILURE LOST OF GENERATED POWER NON-PRECISION APPROACH ENGINE FAILURE DURING GO-AROUND AND MISSED APPROACH (BALKED LANDING) NON-PRECISION APPROACH ONE ENGINE INOPERATIVE LANDING SMOKE WARNING LIGHT RAPID DE-PLANE / EVACUATION PM DUTIES 	<ul style="list-style-type: none"> REJECTED TAKEOFF TAKEOFF – ENGINE FAILURE ENGINE FAILURE AND SHUTDOWN / DRIFT DOWN (CLIMB/CRUISE/DESCENT) NON-PRECISION APPROACH ONE ENGINE INOPERATIVE LANDING TAKEOFF PITCH JAM NON-PRECISION APPROACH FLAPLESS LANDING PM DUTIES

Grading Index

		Marks			
		4	3	2	1
Technical Skill Elements	Aircraft Handling	<ul style="list-style-type: none"> No deviation Effective quality and accuracy Regulatory and aircraft limitations compliance Safety of flight assured 	<ul style="list-style-type: none"> Minor deviation Acceptable quality and accuracy Regulatory and aircraft limitations compliance Safety of flight maintained 	<ul style="list-style-type: none"> Major deviation Poor quality and accuracy Regulatory and aircraft limitations compliance Safety of flight reduced 	<ul style="list-style-type: none"> Critical deviation Unacceptable quality and accuracy Regulatory or aircraft limitations non-compliance Safety of flight compromised
	Technical Skills and Knowledge	<ul style="list-style-type: none"> No error Effective practical understanding Effective following SOPs, rules and regulations 	<ul style="list-style-type: none"> Minor error Acceptable practical understanding Acceptable following SOPs, rules and regulations 	<ul style="list-style-type: none"> Major error Poor practical understanding Poor following SOPs, rules and regulations 	<ul style="list-style-type: none"> Critical error Unacceptable practical understanding Unacceptable following SOPs, rules and regulations
Non-Technical Skills Elements	Cooperation	<ul style="list-style-type: none"> Effective team building and maintaining Effective consideration of others Effective support of others Effective solving conflicts 	<ul style="list-style-type: none"> Acceptable team building and maintaining Acceptable consideration of others Acceptable support of others Acceptable solving conflicts 	<ul style="list-style-type: none"> Poor team building and maintaining Poor consideration of others Poor support of others Poor solving conflicts 	<ul style="list-style-type: none"> Unacceptable team building and maintaining Unacceptable consideration of others Unacceptable support of others Unacceptable solving conflicts
	Leadership and Managerial Skills	<ul style="list-style-type: none"> Effective use of authority and assertiveness Effective providing and maintaining standards Effective planning and coordination Effective workload management 	<ul style="list-style-type: none"> Acceptable use of authority and assertiveness Acceptable providing and maintaining standards Acceptable planning and coordination Acceptable workload management 	<ul style="list-style-type: none"> Poor use of authority and assertiveness Poor providing and maintaining standards Poor planning and coordination Poor workload management 	<ul style="list-style-type: none"> Unacceptable use of authority and assertiveness Unacceptable providing and maintaining standards Unacceptable planning and coordination Unacceptable workload management
	Situational Awareness	<ul style="list-style-type: none"> Effective system awareness Effective environmental awareness Effective awareness of time and anticipation of future events 	<ul style="list-style-type: none"> Acceptable system awareness Acceptable environmental awareness Acceptable awareness of time and anticipation of future events 	<ul style="list-style-type: none"> Poor system awareness Poor environmental awareness Poor awareness of time and anticipation of future events 	<ul style="list-style-type: none"> Unacceptable system awareness Unacceptable environmental awareness Unacceptable awareness of time and anticipation of future events
	Decision Making	<ul style="list-style-type: none"> Effective problem definition / diagnosis Effective option generation Effective risk assessment & option selection Effective outcome review 	<ul style="list-style-type: none"> Acceptable problem definition / diagnosis Acceptable option generation Acceptable risk assessment & option selection Acceptable outcome review 	<ul style="list-style-type: none"> Poor problem definition / diagnosis Poor option generation Poor risk assessment & option selection Poor outcome review 	<ul style="list-style-type: none"> Unacceptable problem definition / diagnosis Unacceptable option generation Unacceptable risk assessment & option selection Unacceptable outcome review
Pictorial					

Threat and Error Management

<p>Threats</p> <p><i>Events or errors that occur beyond the influence of the line personnel, increase operational complexity, and which must be managed to maintain the margins of safety.</i></p>	<p>Anticipated – Foreseen </p> <ul style="list-style-type: none"> Weather Airport Congestion Crosswinds Runway Conditions 	<p>Unanticipated – Unforeseen </p> <ul style="list-style-type: none"> In-flight Malfunction Automation Anomalies Unforecasted Weather TCAS TA/RA Non-Standard Phraseology 	<p>Latent – Unseen </p> <ul style="list-style-type: none"> Incorrect Documentation Equipment Design Issues Organizational / Cultural Changes Complacency Fatigue/Stress Illusions 																														
<p>Errors</p> <p><i>Actions or inactions by the line personnel that lead to deviations from organisational or operational intentions or expectations.</i></p>	<p>Aircraft Handling </p> <ul style="list-style-type: none"> Vertical, lateral or speed deviations Incorrect FGC inputs Incorrect altimeter Taxiing too fast 	<p>Procedural </p> <ul style="list-style-type: none"> Wrong APS entered on Load and Trim Checklists from memory or performed late Omitted briefing or missed items Incorrect logbook entries 	<p>Communications </p> <ul style="list-style-type: none"> Missed calls Incorrect phraseology Transmitting while another transmission is in progress Incorrect read back Miscommunication or misinterpretation between crew members 																														
<p>Error Types</p>	<p>Slips </p> <ul style="list-style-type: none"> Actions that do not go as planned 	<p>Lapses </p> <ul style="list-style-type: none"> Memory failures 	<p>Mistakes </p> <ul style="list-style-type: none"> Failure in the plan of action 	<p>Violations </p> <ul style="list-style-type: none"> Routine or exceptional acts of sabotage 																													
<p>Undesired Aircraft States (UAS)</p> <p><i>Operational conditions where an unintended situation results in a reduction in margins of safety.</i></p>	<p>Aircraft Handling Issues </p> <ul style="list-style-type: none"> Aircraft control Unnecessary weather penetration Operation outside aircraft limitations Unstable approach Continued landing after unstable approach 	<p>Navigation </p> <ul style="list-style-type: none"> Misalignment on runway Proceeding to the wrong taxiway or runway Proceeding to the wrong destination 	<p>Incorrect Aircraft Config </p> <ul style="list-style-type: none"> Systems Flight Controls Automation Engine Weight and Balance 																														
<p>UAS Outcomes</p>	<p>Return to Safe Operations</p>	<p>An Additional Error</p>	<p>Occurrence – Incident/Accident</p>																														
<p>TEM Countermeasures</p>	<p>Planning </p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">SOP Briefing</td> <td style="width: 45%;">The required briefing was interactive and operationally thorough</td> <td style="width: 40%;"> <ul style="list-style-type: none"> Concise, not rushed, and met SOP requirements Bottom lines were established </td> </tr> <tr> <td>Plans Stated</td> <td>Operational plans and decisions were communicated and acknowledged</td> <td> <ul style="list-style-type: none"> Shared understanding about plans “Everybody on the same page” </td> </tr> <tr> <td>Workload Assignment</td> <td>Roles and responsibilities were defined for normal and non normal situations</td> <td> <ul style="list-style-type: none"> Workload assignments were communicated and acknowledged </td> </tr> <tr> <td>Contingency Management</td> <td>Crew members developed effective strategies to manage threats to safety</td> <td> <ul style="list-style-type: none"> Threats and their consequences were anticipated Used all available resources to manage threats </td> </tr> </table>	SOP Briefing	The required briefing was interactive and operationally thorough	<ul style="list-style-type: none"> Concise, not rushed, and met SOP requirements Bottom lines were established 	Plans Stated	Operational plans and decisions were communicated and acknowledged	<ul style="list-style-type: none"> Shared understanding about plans “Everybody on the same page” 	Workload Assignment	Roles and responsibilities were defined for normal and non normal situations	<ul style="list-style-type: none"> Workload assignments were communicated and acknowledged 	Contingency Management	Crew members developed effective strategies to manage threats to safety	<ul style="list-style-type: none"> Threats and their consequences were anticipated Used all available resources to manage threats 	<p>Execution </p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Monitor / Cross-check</td> <td style="width: 45%;">Crew members actively monitored and cross checked systems and other crew members</td> <td style="width: 40%;"> <ul style="list-style-type: none"> Aircraft position, settings, and crew actions were verified </td> </tr> <tr> <td>Workload Assignment</td> <td>Operational tasks were prioritized and properly managed to handle primary flight duties</td> <td> <ul style="list-style-type: none"> Avoided task fixation Did not allow work overload </td> </tr> <tr> <td>Automation Management</td> <td>Automation was properly managed to balance situational and/or workload requirements</td> <td> <ul style="list-style-type: none"> Automation setup was briefed to other members Effective recovery techniques from automation anomalies </td> </tr> </table>	Monitor / Cross-check	Crew members actively monitored and cross checked systems and other crew members	<ul style="list-style-type: none"> Aircraft position, settings, and crew actions were verified 	Workload Assignment	Operational tasks were prioritized and properly managed to handle primary flight duties	<ul style="list-style-type: none"> Avoided task fixation Did not allow work overload 	Automation Management	Automation was properly managed to balance situational and/or workload requirements	<ul style="list-style-type: none"> Automation setup was briefed to other members Effective recovery techniques from automation anomalies 	<p>Review </p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Evaluation / Modification of Plans</td> <td style="width: 45%;">Existing plans were reviewed and modified when necessary</td> <td style="width: 40%;"> <ul style="list-style-type: none"> Crew decisions and actions were openly analyzed to make sure the existing plan was the best plan </td> </tr> <tr> <td>Inquiry</td> <td>Crew members asked questions to investigate and/or clarify current plans of action</td> <td> <ul style="list-style-type: none"> Crew members not afraid to express a lack of knowledge “Nothing taken for granted” attitude </td> </tr> <tr> <td>Assertiveness</td> <td>Crew members stated critical information and/or solutions with appropriate persistence</td> <td> <ul style="list-style-type: none"> Crew members spoke up without hesitation </td> </tr> </table>	Evaluation / Modification of Plans	Existing plans were reviewed and modified when necessary	<ul style="list-style-type: none"> Crew decisions and actions were openly analyzed to make sure the existing plan was the best plan 	Inquiry	Crew members asked questions to investigate and/or clarify current plans of action	<ul style="list-style-type: none"> Crew members not afraid to express a lack of knowledge “Nothing taken for granted” attitude 	Assertiveness	Crew members stated critical information and/or solutions with appropriate persistence	<ul style="list-style-type: none"> Crew members spoke up without hesitation
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<p>The diagram shows a funnel with four levels: THREATS (Threat Management), ERRORS (Error Management), UNDESIRE STATES (Undesired State Management), and END STATE. Red arrows labeled 'Resist', 'Repair', and 'Recover' point from the top level down to the bottom level.</p>	<p style="text-align: center;">TEM / Cognitive Ease</p> <p>When the Pilot has experience, is in a good mood, is familiar with situation and surroundings, there is an increased risk of incidents occurring – Pilot may let their guard down.</p>		<p style="text-align: center;">Bias</p> <ul style="list-style-type: none"> <li style="text-align: center;">Expectation Bias <li style="text-align: center;">Plan Continuation Bias <li style="text-align: center;">Confirmation Bias <li style="text-align: center;">Recency Effect Bias 																														
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<p style="text-align: center;">1. Lack of Communication</p>	<p style="text-align: center;">2. Complacency</p>	<p style="text-align: center;">3. Lack of Knowledge</p>	<p style="text-align: center;">4. Distraction</p>	<p style="text-align: center;">5. Lack of Teamwork</p>	<p style="text-align: center;">6. Fatigue</p>																												
<p style="text-align: center;">7. Lack of Resources</p>	<p style="text-align: center;">8. Pressure</p>	<p style="text-align: center;">9. Lack of Assertiveness</p>	<p style="text-align: center;">10. Stress</p>	<p style="text-align: center;">11. Lack of Awareness</p>	<p style="text-align: center;">12. Norms</p>																												