

ATC Crisis Management System – Change Control Expectations

Purpose

This document defines **expectations, guardrails, and responsibilities** for making changes to the ATC Crisis Management System. It exists to protect system reliability, security, and trust—especially during emergencies.

This document applies to: - Application code changes - Power Automate flow changes - Security and identity configuration changes

1. Guiding Principle

This system is **mission-critical**.

Changes must prioritize: - Stability over speed - Predictability over optimization - Operational safety over convenience

If a change introduces uncertainty during an emergency, it is not acceptable.

2. Approved Change Categories

Low-Risk Changes (Generally Safe)

- Text updates (labels, copy, descriptions)
- Non-functional UI adjustments
- Adding new checklist items *without* logic changes
- Updating documentation

Medium-Risk Changes (Require Testing)

- Checklist logic changes
- Leadership alert trigger conditions
- Form field additions or validation changes
- SharePoint list schema updates

High-Risk Changes (Restricted)

- Authentication or token handling
- Power Automate trigger logic

- Microsoft Graph permissions
- Custom connector changes
- Authorization conditions

High-risk changes must be reviewed and tested deliberately.

3. Versioning Discipline (Application)

Required Practice

- **Every deployment must increment the application version**
- Version changes are not optional

Why This Matters

- The PWA enforces version consistency
- Users may be offline for extended periods
- Failure to bump versions causes:
 - Cache conflicts
 - Unexpected reload behavior

Expectation

- Version bump occurs *before* deployment
 - No exceptions
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4. Power Automate Change Rules

Flow Modifications

- Never edit production flows directly during business hours
- Changes should be made during low-impact windows

Required After Any Flow Change

- Test with a known, controlled input
- Confirm:
 - SharePoint write success
 - Teams notification delivery
 - Leadership alert behavior

Rollback Awareness

- Understand how to revert to the previous flow version
 - Never deploy without a rollback path
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5. Security Configuration Changes

Includes

- App registration secrets
- Graph permissions
- Custom connector credentials

Rules

- Changes must be documented
- Secrets must be rotated deliberately
- Expiration dates must be tracked

Failure in this area impacts **all notifications**.

6. Testing Boundaries

Production Testing Rules

- Never test leadership alerts in production
- Never test during live incidents
- Use test modes and test recipients

Assumption

Every test message may be seen by a real person if misconfigured.

7. Deployment Timing Expectations

Avoid deploying: - During known severe weather events - During business-critical hours - When on-call coverage is unavailable

Deployments should assume: - Immediate rollback may be required

8. Ownership and Accountability

Anyone making changes: - Owns the outcome - Owns the rollback - Owns the communication if something breaks

This system supports real people during real emergencies.

Final Expectation

If you are unsure whether a change is safe: - Do not deploy it

Stability and trust outweigh feature velocity.