# **Phase 2B Rollback Template**

### **Overview**

This template provides exact rollback commands for Phase 2B consolidation operations. Each consolidation day generates a specific rollback stub using this template.

## **Template Variables**

- {DAY NUMBER} : Day number (1, 2, or 3)
- {CONSOLIDATION\_BRANCH} : Target consolidation branch name
- {SOURCE BRANCHES} : Space-separated list of source branches
- {PRE\_MERGE\_COMMIT} : Commit hash before consolidation
- {TIMESTAMP} : Execution timestamp
- {BASELINE\_ID} : Baseline capture identifier

# **Rollback Script Template**

```
#!/bin/bash
# Phase 2B Day {DAY NUMBER} Rollback Script
# Generated: {TIMESTAMP}
# Baseline ID: {BASELINE ID}
set -euo pipefail
echo "=== Phase 2B Day {DAY NUMBER} Rollback Initiated ==="
echo "Target: {CONSOLIDATION_BRANCH}"
echo "Pre-merge commit: {PRE_MERGE_COMMIT}"
echo "Timestamp: {TIMESTAMP}"
# Safety confirmation
read -p " CONFIRM ROLLBACK for Day {DAY_NUMBER} consolidation? (yes/N0): " confirm
if [[ "$confirm" != "yes" ]]; then
    echo "✗ Rollback cancelled by user"
    exit 1
fi
# Step 1: Checkout target branch
echo " Checking out {CONSOLIDATION BRANCH}..."
git checkout {CONSOLIDATION BRANCH}
# Step 2: Reset to pre-merge state
echo " Resetting to pre-merge commit: {PRE_MERGE_COMMIT}"
git reset --hard {PRE_MERGE_COMMIT}
# Step 3: Force push to remote (with safety check)
echo "# Force pushing reset to remote..."
read -p "A CONFIRM FORCE PUSH to origin/{CONSOLIDATION_BRANCH}? (yes/NO): " force_co
if [[ "$force_confirm" == "yes" ]]; then
    git push --force-with-lease origin {CONSOLIDATION BRANCH}
    echo "✓ Remote branch reset successfully"
    echo " Remote push skipped - local reset completed only"
# Step 4: Restore source branches (if archived)
echo " Checking source branch availability..."
SOURCE BRANCHES=({SOURCE BRANCHES})
for branch in "${SOURCE BRANCHES[@]}"; do
    if git show-ref --verify --quiet refs/heads/$branch; then
        echo "✓ Source branch '$branch' still available locally"
    elif git show-ref --verify --quiet refs/remotes/origin/$branch; then
        echo " Restoring source branch '$branch' from remote..."
        git checkout -b $branch origin/$branch
    else
        echo "A Source branch '$branch' not found - may need manual restoration"
    fi
done
# Step 5: Verification
echo "Q Verifying rollback state..."
echo "Current branch: $(git branch --show-current)"
echo "Current commit: $(git rev-parse HEAD)"
echo "Expected commit: {PRE MERGE COMMIT}"
if [[ "$(git rev-parse HEAD)" == "{PRE MERGE COMMIT}" ]]; then
    echo "✓ Rollback verification PASSED"
else
    echo "X Rollback verification FAILED"
```

```
exit 1

fi

echo "=== Phase 2B Day {DAY_NUMBER} Rollback Completed Successfully ==="
echo " Next steps:"
echo " 1. Verify all source branches are available"
echo " 2. Check baseline drift report: docs/phase-2B/day{DAY_NUMBER}_drift.txt"
echo " 3. Review consolidation logs if re-attempting"
```

#### **Manual Rollback Commands**

If the automated script fails, use these manual commands:

#### **Emergency Reset Commands**

```
# 1. Checkout target branch
git checkout {CONSOLIDATION_BRANCH}

# 2. Hard reset to pre-merge state
git reset --hard {PRE_MERGE_COMMIT}

# 3. Force push (DANGEROUS - use with caution)
git push --force-with-lease origin {CONSOLIDATION_BRANCH}
```

#### **Source Branch Recovery**

```
# Check if source branches exist
git branch -a | grep -E "({SOURCE_BRANCHES})"

# Restore from remote if needed
git checkout -b <branch_name> origin/<branch_name>

# Or restore from archive (if using archive workflow)
# See .github/workflows/cleanup-archive-branches.yml
```

## **Safety Checklist**

Before executing rollback:

- [ ] Confirm correct DAY NUMBER and CONSOLIDATION BRANCH
- -[] Verify PRE MERGE COMMIT hash is correct
- [ ] Ensure no critical work exists on target branch post-merge
- [ ] Backup current state if needed
- [ ] Notify team of rollback operation
- [ ] Check that source branches are recoverable

#### **Post-Rollback Actions**

After successful rollback:

- 1. Update project status documentation
- 2. Analyze failure cause from drift reports
- 3. Plan remediation if re-attempting consolidation
- 4. Update baseline captures if needed
- 5. Communicate rollback completion to stakeholders

# **Emergency Contacts**

- Engineering Team: [Contact Info]
- Repository Maintainers: [Contact Info]
- Escalation Path: [Contact Info]

**WARNING**: Force push operations are destructive. Always verify commit hashes and coordinate with team before execution.