

ASR Purchase Order System

Standard Operating Procedure

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Contact:	akidwell@asr-inc.us
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ASR Inc

Systems Integration & Construction Services
San Diego, California

Standard Operating Procedure (SOP)

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Author	Austin Kidwell	_[Digital Signature Required]_	2026-01-12
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1. Purpose and Scope

1.1 Purpose

This Standard Operating Procedure (SOP) establishes the mandatory processes, procedures, and controls for the ASR Purchase Order System. It ensures consistent, compliant, and efficient purchase order management across all ASR divisions while maintaining proper financial controls and audit trails.

1.2 Scope

This SOP applies to:

- **Personnel:** All ASR staff members across all divisions (CH, PW, WS, LS)
- **Systems:** The ASR Purchase Order System (Web and Mobile applications)
- **Processes:** Purchase order creation, approval, reporting, and financial integration
- **Data:** All purchase order transactions, vendor management, and financial reporting
- **Compliance:** Internal controls, audit requirements, and QuickBooks integration

1.3 Regulatory and Compliance Framework

This SOP ensures compliance with:

- **SOX Controls:** Sarbanes-Oxley financial reporting requirements
- **Internal Audit Standards:** ASR internal control framework
- **Financial Controls:** Segregation of duties and approval hierarchies
- **Data Privacy:** Protection of financial and vendor information
- **Industry Standards:** Construction industry best practices

1.4 Business Objectives

The ASR PO System supports the following business objectives:

- **Financial Control:** Maintain proper authorization and approval controls
- **Operational Efficiency:** Streamline purchase order workflows

- **Visibility:** Provide real-time transparency into spending and commitments
- **Compliance:** Ensure audit trails and proper documentation
- **Integration:** Seamless QuickBooks synchronization

2. Definitions and Abbreviations

2.1 Key Definitions

Term	Definition
Purchase Order (PO)	A legally binding document issued by ASR to a vendor requesting goods or services
Work Order (WO)	Internal project authorization with associated budget and GL account coding
GL Account	General Ledger account code for financial categorization and QuickBooks integration
Approver	Authorized personnel with delegation to approve purchase orders within defined limits
Audit Trail	Complete chronological record of all system activities and user actions
Business Intelligence (BI)	Analytical tools and reports for data- driven decision making
Progressive Web App (PWA)	Web application technology providing native app functionality

2.2 System Abbreviations

Abbreviation	Full Term
PO	Purchase Order
WO	Work Order
GL	General Ledger
QB	QuickBooks
API	Application Programming Interface
PWA	Progressive Web App
SOP	Standard Operating Procedure
KPI	Key Performance Indicator
BI	Business Intelligence

2.3 Division Codes

Code	Division Name
CH	Corporate Housing
PW	Property Works
WS	Workplace Solutions
LS	Logistics Solutions

3. Roles and Responsibilities

3.1 Responsibility Matrix (RACI)

Activity	Division Leader	Operations Manager	Accounting	Majority Owner	IT Support
PO Creation	R	A	I	I	S
PO Approval (≤\$25K)	R/A	I	I	I	S
PO Approval (>\$25K)	R	R/A	I	I	S
Financial Oversight	I	I	R/A	I	S
Vendor Management	C	R/A	I	I	S
System Administration	I	I	I	A	R
Audit and Compliance	I	C	R	A	S
Training Delivery	C	R	C	A	S

3.2 Detailed Role Descriptions

3.2.1 Division Leader Responsibilities

- Create and submit purchase orders for division operations
- Approve purchase orders within authorization limits (\$25,000 maximum)
- Monitor division budget utilization and spending patterns
- Ensure compliance with division-specific procurement policies
- Train and oversee team members in system usage
- Purchase order approval: Up to \$25,000 per transaction
- Budget oversight: Division-level budget management
- Team management: Division staff training and compliance
- Average PO processing time: Target ≤ 4 hours

- Budget variance: Target within $\pm 5\%$ monthly
- Compliance rate: Target 100% adherence to procedures

3.2.2 Operations Manager Responsibilities

- Approve high-value purchase orders (\$25,000+ transactions)
- Oversee cross-division procurement activities
- Manage vendor relationships and performance evaluation
- Monitor approval workflow efficiency and identify bottlenecks
- Ensure compliance with corporate procurement policies
- Purchase order approval: Up to \$50,000 per transaction
- Vendor management: Add/remove vendors from approved list
- Process improvement: Modify workflow procedures (with approval)
- High-value PO processing: Target ≤ 8 hours
- Vendor performance: 95% satisfaction rating
- Process efficiency: 90% approval within SLA

3.2.3 Accounting Team Responsibilities

- Provide final financial review and approval for all purchase orders
- Manage GL account structure and coding requirements
- Oversee QuickBooks integration and data synchronization
- Generate financial reports and ensure audit compliance
- Monitor tax implications and compliance requirements
- Financial approval: No transaction limit (final approval authority)
- GL management: Chart of accounts maintenance
- System configuration: Financial settings and integration parameters
- QuickBooks sync accuracy: Target 99.9%
- Financial reporting timeliness: 100% within deadlines
- Audit compliance: Zero findings

3.2.4 Majority Owner Responsibilities

- Establish overall procurement policies and approval limits
- Monitor enterprise-wide performance and compliance
- Approve system configuration changes and policy updates
- Oversee strategic vendor relationships and major contracts
- Ensure regulatory compliance and audit readiness

- Policy establishment: Complete authority over procurement policies
- System governance: Final approval for major system changes
- Strategic oversight: Enterprise-wide performance monitoring

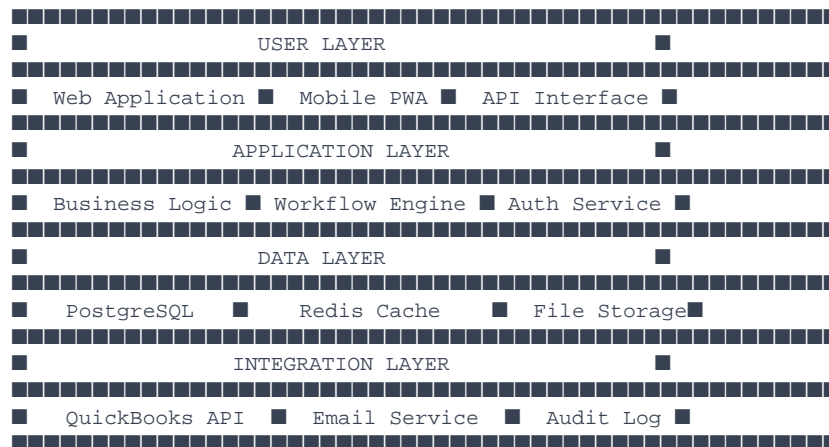
3.2.5 IT Support Responsibilities

- Maintain system infrastructure and ensure 99.9% uptime
- Provide user support and troubleshooting assistance
- Manage system security and user access controls
- Oversee data backup and disaster recovery procedures
- Coordinate system updates and maintenance windows
- System maintenance: Technical administration
- User support: Troubleshooting and training assistance
- Security management: Access control and data protection

4. System Overview and Architecture

4.1 System Architecture

The ASR Purchase Order System is built on a modern, scalable architecture designed for enterprise reliability:



4.2 Technical Specifications

- **Platform:** Cloud-hosted (Render.com)
- **Database:** PostgreSQL 15+ with automated backups
- **Cache Layer:** Redis for session management and performance
- **Security:** TLS 1.3 encryption, role-based access control
- **Monitoring:** Real-time performance and error tracking
- **Availability:** 99.9% uptime SLA
- **Response Time:** < 2 seconds for standard operations
- **Data Backup:** Automated daily backups with 30-day retention
- **Disaster Recovery:** 4-hour RTO, 1-hour RPO

4.3 Security Framework

- **Authentication:** Multi-factor authentication required
- **Authorization:** Role-based permissions with least privilege principle
- **Audit Logging:** Complete activity tracking for compliance
- **Data Encryption:** At rest and in transit

- **SOX Controls:** Segregation of duties enforcement
- **Audit Trail:** Immutable transaction logging
- **Data Privacy:** PII protection and access controls
- **Regular Reviews:** Quarterly security assessments

5. Purchase Order Creation Procedures

5.1 Mandatory Pre-Creation Checklist

Before creating any purchase order, users MUST verify:

- ☐ Project code exists and is active in system
- ☐ Work order has been properly authorized
- ☐ Sufficient budget remains for proposed purchase
- ☐ GL account codes are properly identified

- ☐ Vendor is on approved vendor list
- ☐ Vendor information is current and accurate
- ☐ Payment terms are properly established
- ☐ Vendor insurance and licensing verified (if applicable)

- ☐ Purchase is necessary for project completion
- ☐ Items/services align with work order scope
- ☐ Pricing is competitive and reasonable
- ☐ Delivery timeline meets project requirements

5.2 Step-by-Step Creation Procedure

Step 5.2.1: System Access and Authentication

- **Navigate** to <https://asr-po.yourdomain.com>
- **Authenticate** using ASR credentials
- **Verify** role assignment and permissions display correctly
- **Confirm** dashboard shows current division and access level

- System must display correct user role and division
- Dashboard must show relevant KPIs and pending actions
- Any authentication issues must be reported immediately to IT

Step 5.2.2: Project and Work Order Selection

- **Click** "Create New PO" from dashboard or navigation menu
- **Select Project Code:**

- Use dropdown search functionality
- Verify project shows "Active" status
- Confirm project details match intended work
- **Select Work Order:**
 - Choose appropriate work order sequence
 - Verify budget availability shown in green
 - Note any budget warnings or constraints
- Project code must be active and accessible to user's division
- Work order must have available budget for proposed purchase
- System must display real-time budget information

Step 5.2.3: Vendor Information Entry

- **Search** vendor database using name or ID
- **Select** appropriate vendor from results
- **Verify** contact information is current
- **Confirm** payment terms are acceptable
- **Click** "Add New Vendor" option
- **Complete** mandatory vendor information form:
 - Legal business name
 - Primary contact information
 - Tax identification number
 - Payment terms preference
 - Insurance information (if applicable)
- **Submit** for vendor approval workflow
- **Wait** for approval confirmation before proceeding
- New vendors require Operations Manager approval
- Insurance verification required for construction vendors
- Tax forms must be completed before first payment
- Approval typically completed within 24-48 hours

Step 5.2.4: Purchase Order Detail Entry

- **Header Details:**
 - Delivery location (auto-populated from project)
 - Required delivery date
 - Special delivery instructions
 - Tax applicability determination

- **Line Item Details:**

For each item or service:

- **Description:** Detailed, specific description
- **Quantity:** Exact amount needed
- **Unit of Measure:** Each, square feet, linear feet, etc.
- **Unit Price:** Current market pricing
- **Extended Amount:** Auto-calculated total
- **GL Account Code:** Proper expense categorization

- **50-54:** Direct Labor costs
- **55-59:** Materials and supplies
- **60-64:** Equipment rental and purchases
- **65-69:** Capital equipment and tools
- **70-74:** Subcontractor services
- **75-79:** Professional services and consulting
- **80-84:** Utilities and facilities costs
- **85-89:** Administrative expenses
- **90-94:** Travel and transportation
- **95-99:** Other/miscellaneous expenses

Step 5.2.5: Quality Review and Submission

- ☐ All required fields completed accurately
- ☐ Line item descriptions are specific and detailed
- ☐ Quantities and prices are reasonable and accurate
- ☐ GL account codes match expense types
- ☐ Total amount aligns with work order budget
- ☐ Delivery date is realistic and meets project needs
- ☐ Special instructions are clear and complete

- **Review** PO summary for accuracy
- **Verify** calculated totals and tax amounts
- **Add** any final comments or special instructions
- **Click** "Submit for Approval"
- **Record** generated PO number for tracking
- **Verify** confirmation email receipt

5.3 PO Numbering System

[GL]-[DIV]-[WO]-[VENDOR]-[SEQ]

Example: 65-CH-1234-HOMEDEPOT-001

Components:

- GL: Primary GL account code (65 = Equipment)
- DIV: Division code (CH = Corporate Housing)
- WO: Work order number (1234)
- VENDOR: Vendor identifier (HOMEDEPOT)
- SEQ: Sequential number (001, 002, 003...)

- System automatically generates sequential numbers
- No duplicate numbers can exist within same parameters
- Numbers cannot be manually modified after generation
- Historical numbers maintain referential integrity

5.4 Error Prevention and Quality Assurance

Common Error Prevention Measures

- System displays real-time budget remaining
- Red warnings appear when PO exceeds available budget
- Automatic escalation triggered for budget exceptions
- Detailed justification required for overrides
- Vendor validation checks performed automatically
- Insurance expiration alerts for construction vendors
- Payment terms verification against company policies
- Vendor performance history displayed during selection
- Required field validation prevents incomplete submissions
- GL account suggestions based on item descriptions
- Price reasonableness checks against historical data
- Duplicate PO detection and prevention

Quality Control Checkpoints

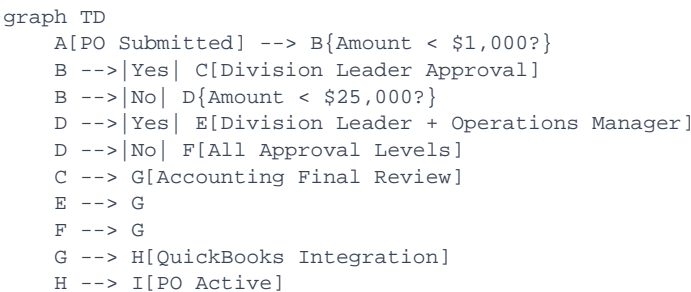
- **Budget Verification:** Available funds vs. PO amount
- **Vendor Status:** Active/approved vendor confirmation
- **GL Code Validation:** Valid account codes for division

- **Data Completeness:** All required fields populated
- **Business Rules:** Compliance with corporate policies
- Operations Manager review for vendor additions
- Division Leader verification for large purchases
- Accounting review for GL code exceptions
- Executive approval for policy deviations

6. Approval Workflow Procedures

6.1 Approval Hierarchy and Authority Matrix

6.1.1 Standard Approval Workflow



6.1.2 Approval Authority Limits

Approver Level	Amount Limit	Additional Requirements
Division Leader	\$25,000	Within division budget
Operations Manager	\$50,000	Cross-division authority
Accounting	No Limit	Final financial review
Majority Owner	No Limit	Policy exception authority

6.2 Approval Procedures by Role

6.2.1 Division Leader Approval Process

- Must be logged in with Division Leader role
- PO must be from assigned division
- Must be within approval authority limits
- **Access Pending Approvals**
 - Navigate to dashboard "Pending Approvals" widget
 - Click on PO number to open detailed view
 - Review appears in dedicated approval interface

- **Conduct Thorough Review**
- **Project Verification:** Confirm project code and work order validity
- **Budget Analysis:** Verify sufficient budget remains
- **Vendor Assessment:** Ensure vendor appropriateness for work type
- **Cost Analysis:** Compare pricing against market rates
- **Scope Alignment:** Confirm items match project requirements

- **Decision Documentation**
- **For Approval:** Add supporting comments
- **For Rejection:** Provide specific feedback and improvement guidance
- **For Questions:** Use comment system to request clarification

- **Action Execution**
- Click appropriate action button (Approve/Reject/Request Changes)
- System automatically routes to next approval level
- Confirmation email sent to all relevant parties

- **Standard POs:** Approval within 8 business hours
- **Rush POs:** Approval within 4 business hours
- **Emergency POs:** Approval within 2 hours (with notification)

- If approver unavailable, automatic escalation after 24 hours
- Backup approvers designated for each division
- Emergency contact procedures for urgent approvals

6.2.2 Operations Manager Approval Process

- **Cross-Division Impact Analysis**
- Evaluate impact on other divisions
- Consider resource allocation implications
- Assess vendor capacity and performance

- **Strategic Alignment Review**
- Confirm alignment with corporate objectives
- Evaluate long-term vendor relationships
- Consider bulk purchase opportunities

- **Risk Assessment**
- Identify potential project risks
- Evaluate vendor financial stability
- Consider insurance and liability implications

- Detailed justification for high-value approvals

- Risk mitigation strategies documented
- Vendor performance history reviewed
- Budget impact analysis completed

6.2.3 Accounting Final Review Process

- **GL Account Validation**
 - Verify correct expense categorization
 - Confirm compliance with chart of accounts
 - Validate tax treatment and implications
- **Budget Compliance Check**
 - Final budget availability confirmation
 - Cash flow impact analysis
 - Monthly spending limit verification
- **QuickBooks Integration Preparation**
 - Verify all required data present
 - Confirm GL mapping accuracy
 - Prepare for automated sync process
- ☐ All approvals properly documented
- ☐ Financial data complete and accurate
- ☐ GL codes validated and confirmed
- ☐ No outstanding compliance issues
- ☐ Ready for QuickBooks integration

6.3 Special Approval Scenarios

6.3.1 Emergency Purchase Orders

- Immediate threat to health and safety
- Critical equipment failure affecting operations
- Time-sensitive project requirements
- Regulatory compliance deadlines
- **Emergency Declaration**
 - Creator marks PO as "Emergency" with justification
 - System sends immediate notifications to all approvers
 - Mobile push notifications activated

- **Accelerated Review**

- All approvers notified simultaneously
- 2-hour response time requirement
- Phone confirmation process available

- **Documentation Requirements**

- Detailed emergency justification required
- Follow-up documentation within 48 hours
- Post-emergency review process

6.3.2 Budget Override Approvals

- PO amount exceeds available work order budget
- Project budget modification required
- Scope change authorization needed

- **Automatic Escalation**

- System automatically routes to Operations Manager
- Budget variance report generated
- Project Manager notified

- **Enhanced Review Requirements**

- Detailed budget justification required
- Impact analysis on other work orders
- Client approval verification (if applicable)

- **Documentation and Tracking**

- Budget modification permanently recorded
- Future impact analysis maintained
- Monthly variance reporting updated

6.3.3 Vendor Exception Approvals

- Non-approved vendor required for specialized work
- Single-source vendor situations
- Emergency vendor additions

- **Vendor Evaluation**

- Detailed vendor assessment completed
- Insurance and licensing verification
- Financial stability review

- **Approval Authorization**

- Operations Manager approval required
- Majority Owner notification for high-value exceptions
- Risk assessment documentation
- **Temporary vs. Permanent Addition**
- One-time use approval process
- Full vendor approval workflow for ongoing relationships
- Performance evaluation requirements

6.4 Rejection and Modification Procedures

6.4.1 Purchase Order Rejection Process

- Insufficient budget availability
- Non-approved vendor selection
- Inappropriate scope or specifications
- Pricing concerns or policy violations
- **Detailed Feedback Requirement**
- Specific reasons for rejection documented
- Corrective action recommendations provided
- Contact information for questions
- **System Processing**
- PO status updated to "Rejected"
- Automatic notification sent to creator
- Rejection logged in audit trail
- **Resubmission Process**
- Creator must address all rejection reasons
- New PO number generated for resubmission
- Original PO maintains rejection status

6.4.2 Modification Requests

- Minor adjustments to quantities or specifications
- Delivery date changes
- Vendor contact updates
- **Request Submission**
- Approver requests specific changes through comments

- System notifies creator of modification request
- Creator receives detailed change requirements
- Creator Response**
 - Creator can accept and resubmit with changes
 - Creator can provide additional justification
 - Creator can withdraw PO if modifications not feasible
- Re-approval Process**
 - Modified PO enters approval workflow again
 - Previous approvers may expedite re-review
 - Full audit trail maintained for changes

7. Reporting and Analytics Procedures

7.1 Enterprise Reporting Framework

7.1.1 Report Categories and Business Purpose

- **GL Analysis Report:** Expense categorization and budget tracking
- **Budget vs Actual Report:** Project cost control and variance analysis
- **Vendor Analysis Report:** Supplier relationship management

- **PO Summary Report:** Workflow efficiency and volume tracking
- **Approval Bottleneck Analysis:** Process optimization insights
- **Project Details Report:** Project-specific cost analysis

- **Cross-Division Performance:** Strategic overview and KPIs
- **Compliance Dashboard:** Audit readiness and control effectiveness
- **Trend Analysis:** Predictive insights and forecasting

7.1.2 Report Access Matrix

Report Type	Division Leader	Operations Manager	Accounting	Majority Owner
GL Analysis	Division Only	All Divisions	Full Access	Full Access
Budget vs Actual	Division Only	All Divisions	Full Access	Full Access
Vendor Analysis	Division Only	Full Access	Full Access	Full Access
PO Summary	Division Only	All Divisions	Full Access	Full Access
Bottleneck Analysis	Limited View	Full Access	Full Access	Full Access
Project Details	Division Projects	All Projects	Full Access	Full Access

7.2 Standard Reporting Procedures

7.2.1 Daily Reporting Requirements

- **Morning Review** (8:00 AM - 9:00 AM)
- Review overnight PO submissions

- Check pending approvals requiring attention
- Monitor budget utilization alerts
- **End-of-Day Summary** (4:00 PM - 5:00 PM)
 - Review daily PO activity
 - Confirm all approvals completed
 - Check for any urgent issues
- **Cross-Division Dashboard Review** (Daily)
 - Monitor high-value PO activity
 - Review approval bottlenecks
 - Assess vendor performance metrics
- **Daily Reconciliation** (End of business day)
 - Verify QuickBooks sync completion
 - Review GL account assignments
 - Confirm tax calculations

7.2.2 Weekly Reporting Procedures

- **Every Monday 10:00 AM:** Generate executive summary report
- **Key Metrics Included:**
 - Total PO volume and value (previous week)
 - Budget variance analysis
 - Approval efficiency metrics
 - Vendor performance indicators
- **Every Friday 2:00 PM:** Generate budget variance report
- **Distribution:** Division Leaders, Operations Manager, Accounting
- **Required Actions:** Variance explanations for deviations >10%

7.2.3 Monthly Reporting Requirements

- **GL Analysis Report**
 - Complete expense categorization
 - Year-over-year comparison
 - Budget vs actual analysis
 - Tax summary and implications
- **Vendor Performance Report**
 - Top vendor analysis
 - New vendor additions

- Performance metrics and ratings
- Contract renewal recommendations
- **Executive Summary**
- High-level KPIs and trends
- Strategic insights and recommendations
- Risk assessment and mitigation
- Operational efficiency metrics

7.3 Report Generation Procedures

7.3.1 Standard Report Generation

- **Access Reports Module**
- Navigate to Reports section from main menu
- Select appropriate report category
- Choose specific report type
- **Configure Report Parameters**
- **Date Range:** Select appropriate time period
- **Division Filter:** Choose applicable divisions
- **Status Filter:** Include/exclude specific PO statuses
- **Additional Filters:** Apply vendor, project, or amount filters
- **Generate and Review**
- Click "Generate Report" button
- Wait for processing completion
- Review report data for accuracy
- Verify filters applied correctly
- **Export and Distribution**
- Select appropriate export format (PDF/Excel/CSV)
- Choose distribution method (download/email)
- Send to required recipients
- Archive report as required

7.3.2 Custom Report Procedures

- **Submit Request**
- Complete custom report request form
- Provide detailed requirements and business justification

- Specify required delivery timeline
- **Review and Approval**
 - IT team reviews technical feasibility
 - Operations Manager approves business justification
 - Estimated development timeline provided
- **Development and Testing**
 - Custom report development
 - User acceptance testing
 - Documentation and training materials
- **Deployment and Training**
 - Production deployment
 - User training and documentation
 - Ongoing support procedures

7.4 Report Quality Assurance and Compliance

7.4.1 Data Accuracy Procedures

- **Data Source Verification:** Confirm all data sources connected
- **Calculation Validation:** Verify mathematical accuracy
- **Period Consistency:** Ensure consistent date ranges
- **Filter Accuracy:** Confirm filters applied correctly
- **Accounting Review:** Monthly financial reports require accounting sign-off
- **Management Review:** Executive reports require management approval
- **Exception Analysis:** Investigate unusual variances or trends

7.4.2 Compliance and Audit Requirements

- All report generation activities logged
- User access and permissions tracked
- Report modifications documented
- Distribution lists maintained
- SOX compliance for financial reports
- Data retention policies enforced
- Access controls regularly reviewed
- Security measures maintained

- **Monthly Reports:** Archive for 7 years
- **Quarterly Reports:** Archive for 10 years
- **Annual Reports:** Archive permanently
- **Custom Reports:** Archive per business requirements

8. Mobile Application Procedures

8.1 Mobile Application Architecture and Standards

8.1.1 Progressive Web App (PWA) Technology

The ASR PO System mobile application is built as a Progressive Web App, providing:

- **Native App Experience:** Full-screen operation without browser chrome
- **Offline Capability:** Limited functionality without internet connection
- **Push Notifications:** Real-time alerts and notifications
- **Home Screen Installation:** Direct access from device home screen
- **Cross-Platform Compatibility:** Unified experience across iOS and Android

8.1.2 Mobile Security Framework

- Same credential system as web application
- Biometric authentication support (fingerprint/face recognition)
- Session timeout configured for mobile usage patterns
- Automatic logout after 8 hours of inactivity
- Local data encryption on device
- Secure transmission protocols (TLS 1.3)
- No sensitive data cached locally
- Remote wipe capability for lost/stolen devices

8.2 Mobile Installation Procedures

8.2.1 iOS Installation (iPhone/iPad)

- **Open Safari Browser**
- Navigate to <https://asr-po.yourdomain.com>
- Ensure WiFi or cellular connection available
- Allow location access if prompted
- **Authentication and Verification**
- Log in with ASR credentials

- Verify role assignment displays correctly
- Confirm dashboard loads with appropriate data
- Home Screen Installation**
 - Tap Share button (square with arrow pointing up)
 - Scroll down and select "Add to Home Screen"
 - Customize app name if desired (default: "ASR PO System")
 - Tap "Add" to complete installation
- Initial Configuration**
 - Open app from home screen
 - Configure notification preferences
 - Enable biometric authentication if desired
 - Test core functionality
- Safari 14+ required
- iOS 13.0+ required for full PWA functionality
- 50MB available storage recommended
- Cellular or WiFi connection for initial setup

8.2.2 Android Installation

- Open Chrome Browser**
 - Navigate to <https://asr-po.yourdomain.com>
 - Ensure internet connection available
 - Accept any security prompts
- PWA Installation Prompt**
 - Chrome should display "Install App" prompt automatically
 - If not visible, tap three-dot menu → "Install App"
 - Confirm installation when prompted
- Alternative Installation Method**
 - Tap Chrome menu (three dots)
 - Select "Add to Home Screen"
 - Confirm app name and icon
 - Tap "Add" to install
- Post-Installation Setup**
 - Launch app from home screen or app drawer
 - Complete authentication
 - Configure notifications and preferences

- Verify all features accessible
- Chrome 90+ required
- Android 8.0+ for optimal experience
- 75MB available storage recommended
- Google Play Services updated

8.3 Mobile Usage Procedures

8.3.1 Purchase Order Creation on Mobile

- **Quick Access Creation**
 - Large "Create PO" button prominently displayed
 - Streamlined form layout for touch interaction
 - Auto-complete functionality for repetitive entries
- **Voice Input Capabilities**
 - Use device voice-to-text for item descriptions
 - Speak quantities and prices for faster entry
 - Voice commands for navigation between sections
- **Camera Integration Features**
 - Scan vendor business cards for contact information
 - Photograph estimates or quotes for reference
 - Attach supporting documentation directly
- Touch-friendly form validation
- Large error messages and indicators
- Swipe gestures for navigation
- Haptic feedback for confirmations

8.3.2 Mobile Approval Procedures

- **Push Notification Workflow**
 - Instant notifications for new PO approvals
 - Tap notification to open approval interface directly
 - Background app refresh for real-time updates
- **Quick Approval Actions**
 - Large approve/reject buttons
 - Swipe gestures for bulk actions

- Voice-to-text for approval comments
- Biometric confirmation for security
- **Offline Review Capability**
 - Download pending approvals for offline review
 - Queue approval decisions for automatic sync
 - Visual indicators for offline/online status
- Confirmation prompts for all approval actions
- Required justification for rejections
- Automatic audit trail logging
- Real-time sync verification

8.3.3 Mobile Reporting Access

- **Dashboard View**
 - Key metrics displayed in large, touch-friendly cards
 - Swipe gestures for navigation between metrics
 - Tap to drill down into detailed views
- **Responsive Report Design**
 - Charts and graphs optimized for mobile screens
 - Horizontal scroll for wide tables
 - Pinch-to-zoom for detailed analysis
 - Export functionality maintained
- **Offline Report Access**
 - Recently viewed reports cached for offline access
 - Automatic sync when connection restored
 - Storage management for cached data

8.4 Mobile Performance and Troubleshooting

8.4.1 Performance Optimization

- **Progressive Loading:** Critical data loads first
- **Image Optimization:** Compressed images for faster loading
- **Caching Strategy:** Frequently used data cached locally
- **Network Optimization:** Minimal data transfer requirements
- **Load Time Targets:** < 3 seconds on 4G connection

- **Responsiveness:** < 1 second for user interactions
- **Battery Efficiency:** Optimized background processing
- **Data Usage:** < 5MB per session typical usage

8.4.2 Common Mobile Issues and Solutions

- **Symptom:** App won't load or sync data
- **Solution:** Check WiFi/cellular connection, restart app
- **Escalation:** Clear browser cache, reinstall if persistent

- **Symptom:** Unable to log in or frequent logouts
- **Solution:** Clear cookies, check password, verify account status
- **Escalation:** Contact IT support with specific error messages

- **Symptom:** Slow loading or freezing
- **Solution:** Close other apps, restart device, check available storage
- **Escalation:** Update browser, check device compatibility

- **Symptom:** Not receiving push notifications
- **Solution:** Check notification settings, verify permissions
- **Escalation:** Reinstall app, check device notification settings

8.4.3 Mobile Support Procedures

- **Built-in Help System**
 - Context-sensitive help available
 - Video tutorials for common tasks
 - FAQ section with mobile-specific guidance
- **Diagnostic Tools**
 - Connection status indicator
 - Sync status display
 - Performance metrics available
- **Initial Contact Information Required**
 - Device type and operating system version
 - Browser version and app installation method
 - Specific error messages or screenshots
 - Steps to reproduce the issue
- **Remote Support Capabilities**
 - Screen sharing for troubleshooting
 - Remote diagnostic tools

- Configuration assistance
- **Hardware Compatibility**
 - Minimum device requirements verification
 - Browser compatibility testing
 - Performance optimization recommendations

9. Quality Assurance and Compliance

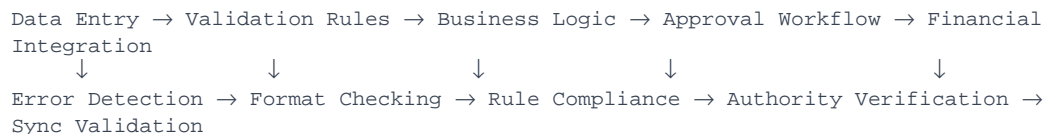
9.1 Quality Management Framework

9.1.1 Quality Objectives

The ASR Purchase Order System quality framework ensures:

- **Data Integrity:** 99.9% accuracy in financial transactions
- **Process Compliance:** 100% adherence to established procedures
- **System Reliability:** 99.9% uptime with < 2 second response times
- **User Satisfaction:** 95% user satisfaction rating
- **Audit Readiness:** Continuous audit trail and documentation

9.1.2 Quality Control Checkpoints



- Daily transaction sampling (10% of POs reviewed)
- Weekly process compliance audits
- Monthly system performance reviews
- Quarterly user satisfaction surveys

9.2 Compliance Framework

9.2.1 Regulatory Compliance Requirements

- **Internal Controls:** Documented procedures and segregation of duties
- **Financial Reporting:** Accurate and timely financial data
- **Audit Trail:** Complete transaction history and documentation
- **Management Certification:** Regular attestation of control effectiveness
- **Construction Industry Best Practices:** Project-based accounting and cost tracking
- **Financial Controls:** Multi-level approval and authorization controls

- **Data Protection:** Secure handling of financial and vendor information

9.2.2 Internal Control Framework

- **Authorization Controls**
 - Role-based approval limits enforced by system
 - Dual authorization required for high-value transactions
 - Segregation of duties between creation and approval
- **Documentation Controls**
 - Complete audit trail for all transactions
 - Required documentation for vendor setup and changes
 - Approval justification documentation
- **Physical Controls**
 - Secure system access with multi-factor authentication
 - Regular security assessments and penetration testing
 - Data backup and disaster recovery procedures
- **Performance Controls**
 - Regular monitoring of system performance metrics
 - User access reviews and permission audits
 - Process efficiency measurements and improvements

9.3 Quality Assurance Procedures

9.3.1 Daily Quality Checks

- **Data Integrity:** Database consistency checks
- **Interface Validation:** QuickBooks sync status verification
- **Performance Monitoring:** Response time and error rate tracking
- **Security Scanning:** Access log analysis and intrusion detection
- **Transaction Sampling** (10% daily)
 - Random selection of completed transactions
 - Verification of approval workflow compliance
 - GL code accuracy validation
 - Vendor information verification
- **Exception Reporting**
 - Identification of unusual transactions or patterns

- Investigation of system errors or failures
- Resolution of data quality issues
- Documentation of corrective actions

9.3.2 Weekly Quality Audits

- **Approval Workflow Review**
 - Verification of proper approval hierarchy
 - Confirmation of authority limits compliance
 - Documentation of approval justifications
- **Data Quality Assessment**
 - Vendor master data accuracy
 - GL account assignment verification
 - Project and work order validity
- **System Performance Review**
 - Response time analysis
 - Error rate trending
 - User satisfaction feedback

Metric	Target	Current	Trend
Data Accuracy	99.9%	99.95%	■
Process Compliance	100%	99.8%	→
System Uptime	99.9%	99.97%	■
User Satisfaction	95%	94%	■
Approval SLA	8 hours	6.2 hours	■

9.3.3 Monthly Compliance Review

- **SOX Controls Testing**
 - Test effectiveness of key controls
 - Document any control deficiencies
 - Implement corrective action plans
 - Management attestation preparation
- **Internal Audit Preparation**
 - Documentation review and update
 - Process walkthrough verification
 - Evidence collection and organization

- Corrective action status review
- **Vendor Compliance Review**
 - Vendor master data accuracy verification
 - Insurance and licensing status confirmation
 - Performance evaluation documentation
 - Contract compliance assessment

9.4 Continuous Improvement Procedures

9.4.1 Performance Monitoring and Analysis

- **Process Efficiency:** Average PO processing time
- **System Performance:** Response times and availability
- **User Adoption:** Usage statistics and satisfaction scores
- **Financial Accuracy:** Error rates and correction frequency
- **Trend Analysis**
 - Identification of performance trends
 - Comparison against established benchmarks
 - Root cause analysis for performance degradation
- **Improvement Opportunities**
 - Process optimization recommendations
 - Technology enhancement proposals
 - Training and development needs assessment

9.4.2 Feedback Collection and Implementation

- **Quarterly User Surveys:** Comprehensive satisfaction assessment
- **Suggestion System:** Continuous improvement idea collection
- **Focus Groups:** Detailed feedback sessions with key users
- **Help Desk Analytics:** Issue trending and resolution analysis
- **Collection and Analysis**
 - Gather feedback from all sources
 - Categorize and prioritize suggestions
 - Assess implementation feasibility
- **Review and Approval**
 - Technical feasibility assessment

- Business impact analysis
- Resource requirement evaluation
- Management approval process
- **Implementation and Communication**
 - Development and testing procedures
 - User training and change management
 - Progress communication and updates
 - Success measurement and reporting

10. Training and Competency Requirements

10.1 Training Framework and Objectives

10.1.1 Training Program Overview

The ASR Purchase Order System training program ensures all users can effectively and compliantly use the system. The program includes:

- **Role-based Training:** Customized content for each user role
- **Competency Validation:** Measurable skill assessments
- **Ongoing Education:** Regular updates and refresher training
- **Performance Support:** Just-in-time help and guidance

10.1.2 Learning Objectives by Role

- Create purchase orders efficiently and accurately
- Perform approval reviews within established timeframes
- Generate and interpret division-specific reports
- Understand budget management and variance analysis
- Execute complex approval workflows
- Manage vendor relationships effectively
- Analyze cross-division performance metrics
- Identify and resolve process bottlenecks
- Perform financial oversight and GL account management
- Monitor QuickBooks integration and resolve issues
- Generate comprehensive financial reports
- Ensure compliance with financial controls

10.2 Initial Training Requirements

10.2.1 New User Onboarding Process

- **Account Provisioning**
- User account creation in system
- Role assignment based on position

- Initial password and security setup
- Email notification of account activation
- **Training Material Access**
 - Login credentials for training environment
 - Access to training documentation and videos
 - Training schedule and milestone timeline
 - Contact information for training support
- System overview and business objectives
- Navigation and user interface orientation
- Security protocols and best practices
- Basic troubleshooting and support resources
- Detailed procedures for user's specific role
- Hands-on practice in training environment
- Common scenarios and case studies
- Error prevention and quality assurance
- Practical skill demonstration
- Written assessment of key concepts
- Performance benchmarks achievement
- Certification issuance upon successful completion

10.2.2 Training Delivery Methods

- Initial onboarding sessions for new users
- Complex feature training for advanced users
- Group training for system updates
- Customized training for special requirements
- Online training modules with interactive elements
- Video tutorials for common procedures
- Written documentation and quick reference guides
- Practice environment for skill development
- Mentorship programs with experienced users
- Shadowing experienced staff during real transactions
- Graduated responsibility with supervisor oversight
- Real-time feedback and coaching

10.3 Competency Requirements and Assessment

10.3.1 Core Competency Standards

- **System Navigation:** Efficient movement between system sections
- **Security Compliance:** Proper authentication and data protection
- **Basic Procedures:** Fundamental system operations
- **Error Recognition:** Identification and resolution of common issues
- **PO Creation:** Complete accurate purchase orders in < 5 minutes
- **Approval Processing:** Review and approve POs within 4-hour SLA
- **Report Generation:** Create division reports with 100% accuracy
- **Budget Management:** Identify and address budget variances
- **Complex Approvals:** Process high-value POs with proper documentation
- **Vendor Management:** Evaluate and approve new vendors effectively
- **Cross-Division Analysis:** Generate and interpret multi-division reports
- **Process Optimization:** Identify and resolve workflow bottlenecks
- **Financial Controls:** Execute financial oversight with 99.9% accuracy
- **QuickBooks Integration:** Monitor and resolve sync issues promptly
- **GL Management:** Maintain chart of accounts and ensure proper coding
- **Compliance Reporting:** Generate audit-ready financial reports

10.3.2 Assessment Methods and Criteria

- **Simulation Exercises:** Complete realistic scenarios in training environment
- **Time-Based Tasks:** Demonstrate efficiency in common procedures
- **Error Detection:** Identify and correct problematic transactions
- **Documentation Skills:** Produce accurate and complete documentation
- **Written Assessments:** Multiple choice and scenario-based questions
- **Oral Examinations:** Discussion of complex procedures and policies
- **Case Study Analysis:** Problem-solving with real-world examples
- **Compliance Testing:** Understanding of regulatory and policy requirements
- **Accuracy Requirement:** 95% accuracy on all assessment components
- **Time Requirements:** Complete tasks within established timeframes
- **Compliance Knowledge:** 100% on regulatory and policy questions
- **Practical Application:** Demonstrate real-world application of skills

10.4 Ongoing Training and Professional Development

10.4.1 Refresher Training Schedule

- System enhancements and new features
- Policy changes and procedure updates
- Performance feedback and improvement areas
- Industry best practices and trends
- Comprehensive competency reassessment
- Advanced feature training and optimization
- Compliance update training
- Career development and skill advancement
- On-demand help system and tutorials
- Contextual guidance within system interface
- Quick reference materials and cheat sheets
- Peer mentoring and knowledge sharing

10.4.2 Advanced Training Opportunities

- **Advanced Reporting:** Complex analytics and custom report creation
- **Process Optimization:** Workflow analysis and improvement techniques
- **System Administration:** User management and system configuration
- **Integration Management:** QuickBooks and third-party system integration
- **Change Management:** Leading system implementations and updates
- **Performance Management:** Using system data for team development
- **Strategic Analysis:** Leveraging system data for business decisions
- **Compliance Leadership:** Ensuring team compliance and best practices

10.4.3 Training Documentation and Records

- **Individual Training Records:** Complete history of all training completed
- **Competency Tracking:** Current certification status and renewal dates
- **Performance Monitoring:** Ongoing assessment of skill application
- **Development Planning:** Individual development plans and goals
- **Training Materials:** Current version control and accessibility
- **Assessment Records:** Secure storage of assessment results
- **Certification Tracking:** Valid certification status for all users
- **Compliance Evidence:** Audit trail of training completion and effectiveness

11. Risk Management and Security

11.1 Risk Assessment Framework

11.1.1 Risk Categories and Impact Analysis

- **Unauthorized Purchases:** Potential for fraud or policy violations
- **Budget Overruns:** Exceeding project or division budgets
- **Duplicate Payments:** System integration or process failures
- **Vendor Fraud:** Fictitious vendors or inflated pricing

- **System Downtime:** Business disruption and productivity loss
- **Data Loss:** Critical business information unavailability
- **Process Failures:** Approval delays or workflow breakdowns
- **User Errors:** Incorrect data entry or process execution

- **Regulatory Violations:** Non-compliance with SOX or industry standards
- **Audit Findings:** Control deficiencies or documentation gaps
- **Policy Violations:** Non-adherence to corporate policies
- **Vendor Compliance:** Supplier regulatory or contractual violations

- **Cybersecurity Threats:** Unauthorized access or data breaches
- **Integration Failures:** QuickBooks or other system connectivity issues
- **Performance Degradation:** System slowdowns or capacity issues
- **Obsolescence:** Technology platform or dependency risks

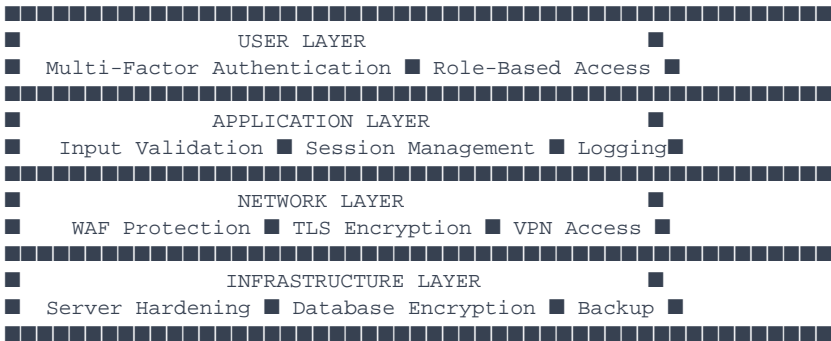
11.1.2 Risk Assessment Matrix

Risk Category	Likelihood	Impact	Risk Level	Mitigation Priority
Unauthorized Access	Low	High	Medium	High
System Downtime	Medium	High	High	High
Data Breach	Low	Very High	High	Critical
Process Failure	Medium	Medium	Medium	Medium
Budget Overruns	High	Medium	High	High
Vendor Fraud	Low	High	Medium	High
Integration Failure	Medium	Medium	Medium	Medium

Risk Category	Likelihood	Impact	Risk Level	Mitigation Priority
User Errors	High	Low	Medium	Medium

11.2 Security Framework and Controls

11.2.1 Information Security Architecture



- **Preventive Controls:** Access controls, input validation, encryption
- **Detective Controls:** Audit logging, intrusion detection, monitoring
- **Corrective Controls:** Incident response, data recovery, system restoration
- **Administrative Controls:** Policies, procedures, training, governance

11.2.2 Access Control Framework

- **Primary Authentication:** Username and password (minimum 12 characters)
- **Multi-Factor Authentication:** SMS, email, or authenticator app
- **Biometric Support:** Fingerprint or facial recognition for mobile
- **Session Management:** 8-hour timeout, secure session tokens

Function	Division Leader	Operations Manager	Accounting	Majority Owner
Create PO	✓	✓	✓	✓
Approve PO (≤\$25K)	✓	✓	✓	✓
Approve PO (>\$25K)	✗	✓	✓	✓
Vendor Management	Limited	✓	✓	✓

Function	Division Leader	Operations Manager	Accounting	Majority Owner
User Administration	X	Limited	Limited	✓
System Configuration	X	X	Limited	✓
Audit Reports	Division	All	All	All

11.2.3 Data Protection Measures

- **Public:** Marketing materials, general system information
- **Internal:** Operational procedures, system documentation
- **Confidential:** Purchase orders, vendor information, financial data
- **Restricted:** User credentials, audit logs, compliance data
- **Data at Rest:** AES-256 encryption for database and file storage
- **Data in Transit:** TLS 1.3 for all network communications
- **Backup Data:** Encrypted backups with separate key management
- **Mobile Data:** Local encryption on mobile devices
- **Transaction Data:** 7-year retention requirement
- **Audit Logs:** 10-year retention for compliance
- **User Data:** Retained during active employment + 3 years
- **Secure Disposal:** Cryptographic erasure and physical destruction

11.3 Risk Mitigation Strategies

11.3.1 Preventive Risk Controls

- **Approval Hierarchies**
 - Multi-level approval requirements based on transaction value
 - Segregation of duties between creation and approval
 - Real-time budget checking and availability verification
 - Automated escalation for policy exceptions
- **Vendor Management Controls**
 - Comprehensive vendor verification and approval process
 - Regular vendor performance monitoring and evaluation
 - Insurance and licensing requirement verification
 - Blacklist management and fraud prevention

- **Budget Controls**

- Real-time budget availability checking
- Automatic alerts for budget thresholds
- Project budget allocation and tracking
- Variance analysis and reporting

- **System Reliability**

- 99.9% uptime service level agreement
- Redundant infrastructure and failover capabilities
- Regular system maintenance and updates
- Performance monitoring and capacity planning

- **Data Protection**

- Automated daily backups with offsite storage
- Database replication and disaster recovery
- Regular backup testing and restoration validation
- Encryption at rest and in transit

- **Process Controls**

- Standardized workflows with built-in validations
- User training and competency requirements
- Process documentation and regular updates
- Quality assurance monitoring and testing

11.3.2 Detective Risk Controls

- **Real-time Intrusion Detection:** Automated threat detection and alerting
- **Access Monitoring:** User activity logging and anomaly detection
- **Performance Monitoring:** System health and availability tracking
- **Compliance Monitoring:** Regular audit and control testing
- **Comprehensive Audit Trail:** Complete transaction and user activity logging
- **Regular Internal Audits:** Quarterly compliance and control testing
- **External Assessments:** Annual security penetration testing
- **Regulatory Compliance:** SOX and industry standard adherence

11.3.3 Corrective Risk Controls

- **Security Incident Response**
- 24/7 security monitoring and alert system
- Defined escalation procedures and response teams

- Incident classification and response protocols
- Post-incident analysis and improvement processes
- **Business Continuity**
 - Disaster recovery procedures with 4-hour RTO
 - Alternative processing capabilities during outages
 - Emergency communication procedures
 - Business impact assessment and prioritization
- **Data Recovery**
 - Point-in-time recovery capabilities
 - Automated backup verification and testing
 - Offsite storage and geographic distribution
 - Recovery time objectives and testing procedures

11.4 Security Governance and Compliance

11.4.1 Security Governance Structure

- **Chief Executive Officer:** Overall security accountability and policy approval
- **Operations Manager:** Day-to-day security oversight and incident management
- **IT Administrator:** Technical security implementation and monitoring
- **All Users:** Security awareness and compliance with policies
- **Security Review Board:** Quarterly security posture assessment
- **Incident Response Team:** 24/7 security incident management
- **Compliance Committee:** Regular regulatory compliance monitoring

11.4.2 Regular Security Assessments

- User access rights review and validation
- Security log analysis and anomaly investigation
- Vulnerability assessment and patch management
- Security awareness training effectiveness
- Comprehensive security control testing
- Penetration testing and vulnerability scanning
- Business continuity and disaster recovery testing
- Security policy review and updates
- External security assessment and certification

- Compliance audit and regulatory review
- Security training program evaluation
- Strategic security planning and improvement

11.4.3 Compliance Monitoring and Reporting

- **SOX Compliance:** Quarterly controls testing and documentation
- **Industry Standards:** Annual compliance assessment and certification
- **Data Privacy:** Regular privacy impact assessments
- **Financial Regulations:** Continuous monitoring and reporting

- **Management Dashboard:** Real-time compliance metrics and KPIs
- **Quarterly Reports:** Comprehensive compliance status and trends
- **Annual Certification:** Executive attestation and external validation
- **Exception Reporting:** Immediate notification of compliance issues

12. Audit and Review Procedures

12.1 Audit Framework and Objectives

12.1.1 Audit Program Overview

The ASR Purchase Order System audit program ensures:

- **Process Effectiveness:** Verification that procedures achieve intended results
- **Compliance Verification:** Confirmation of adherence to policies and regulations
- **Control Testing:** Validation of internal control design and operation
- **Continuous Improvement:** Identification of optimization opportunities

12.1.2 Audit Scope and Frequency

- **Daily:** Automated system checks and exception reporting
- **Weekly:** Process compliance sampling and review
- **Monthly:** Comprehensive control testing and validation
- **Quarterly:** Management review and certification
- **Annually:** Complete system audit and external validation
- **Financial Controls:** Authorization, approval, and financial integration
- **Operational Processes:** Workflow efficiency and effectiveness
- **Data Integrity:** Accuracy, completeness, and consistency
- **Security Controls:** Access management and data protection
- **Compliance Adherence:** Policy and regulatory compliance

12.2 Daily Audit Procedures

12.2.1 Automated System Monitoring

System Process	→	Control Point	→	Automated Check	→	Exception Alert
↓		↓		↓		↓
PO Creation	→	Budget Validation	→	Available Funds	→	Budget Alert
PO Approval	→	Authority Check	→	Approval Limits	→	Authority Alert
QB Sync	→	Data Integrity	→	Field Validation	→	Sync Error Alert

- **Transaction Completeness**

- All PO transactions properly logged
- No orphaned records or data inconsistencies
- Complete audit trail for all activities
- Proper transaction sequencing and numbering

- **Control Effectiveness**

- Approval hierarchy properly enforced
- Authority limits respected and validated
- Budget controls functioning correctly
- Security controls operating as designed

- **System Performance**

- Response times within acceptable limits
- Error rates below established thresholds
- System availability meeting SLA requirements
- Database performance and optimization

12.2.2 Exception Reporting and Investigation

- **Budget Overruns:** Transactions exceeding available budget
- **Authority Violations:** Approvals beyond authorized limits
- **Data Quality Issues:** Incomplete or inconsistent data
- **System Errors:** Technical failures or performance issues

- **Immediate Investigation**

- Exception identified through automated monitoring
- Initial assessment and classification performed
- Responsible parties notified within 1 hour
- Immediate corrective action initiated if required

- **Root Cause Analysis**

- Detailed investigation of underlying causes
- Documentation of findings and contributing factors
- Identification of systemic issues or patterns
- Development of corrective action plans

- **Resolution and Follow-up**

- Implementation of corrective measures
- Verification of resolution effectiveness
- Documentation of lessons learned
- Process improvements to prevent recurrence

12.3 Weekly Audit Procedures

12.3.1 Process Compliance Audit

- **Random Sampling:** 10% of weekly transactions
- **Risk-Based Sampling:** Focus on high-value or high-risk transactions
- **Targeted Sampling:** Specific areas of concern or improvement
- **Statistical Sampling:** Representative sample for broader conclusions

- **Authorization Testing**
 - Verify proper approval hierarchy followed
 - Confirm approver authority for transaction amounts
 - Validate approval timing and documentation
 - Test segregation of duties compliance

- **Documentation Review**
 - Complete transaction documentation present
 - Required signatures and approvals obtained
 - Proper supporting documentation attached
 - Audit trail integrity and completeness

- **Data Accuracy Verification**
 - Mathematical accuracy of calculations
 - Proper GL account coding and categorization
 - Vendor information accuracy and completeness
 - Project and work order allocation correctness

12.3.2 Performance Metrics Analysis

Metric	Target	Current Performance	Variance	Action Required
PO Processing Time	8 hours	6.2 hours	-22.5%	Monitor for sustainability
Approval Accuracy	99%	99.8%	+0.8%	Continue current practices
Budget Compliance	95%	94.2%	-0.8%	Investigate variance causes
System Uptime	99.9%	99.97%	+0.07%	Excellent performance
User Satisfaction	95%	94%	-1%	Review user feedback

- **Monthly Trends:** Identification of performance patterns

- **Seasonal Variations:** Recognition of cyclical performance changes
- **Process Improvements:** Measurement of enhancement effectiveness
- **Benchmark Comparisons:** Performance against industry standards

12.4 Monthly Audit Procedures

12.4.1 Comprehensive Control Testing

- **Design Effectiveness Testing**
 - Validation of control design adequacy
 - Assessment of control logic and workflow
 - Evaluation of system configuration compliance
 - Review of policy and procedure alignment
- **Operating Effectiveness Testing**
 - Testing of control execution consistency
 - Validation of control performance reliability
 - Assessment of user compliance with procedures
 - Measurement of control efficiency and effectiveness
- **Compensating Control Evaluation**
 - Identification of control gaps or weaknesses
 - Assessment of compensating control adequacy
 - Evaluation of risk mitigation effectiveness
 - Recommendation for control improvements
- **Testing Procedures:** Detailed methodology and scope
- **Sample Selection:** Criteria and rationale for sample selection
- **Test Results:** Findings, exceptions, and observations
- **Recommendations:** Proposed improvements and corrective actions

12.4.2 Financial Reconciliation and Validation

- **Data Synchronization Verification**
 - Complete transaction synchronization confirmation
 - Timing accuracy of data transfer
 - Data integrity and completeness validation
 - Error handling and exception management
- **GL Account Reconciliation**
 - Account balance reconciliation between systems

- Transaction detail matching and validation
- Period cutoff accuracy and completeness
- Chart of accounts consistency maintenance
- **Vendor Master Data Audit**
- Vendor information accuracy verification
- Duplicate vendor identification and resolution
- Inactive vendor cleanup and maintenance
- Payment terms and tax setup validation

12.5 Quarterly and Annual Audit Procedures

12.5.1 Management Review and Certification

- **Control Environment Assessment**
- Management oversight effectiveness evaluation
- Organizational structure and responsibility clarity
- Policy and procedure currency and adequacy
- Risk management framework effectiveness
- **Performance Review**
- Achievement of established performance targets
- Trend analysis and improvement identification
- Resource adequacy and efficiency assessment
- Strategic alignment and goal achievement
- **Compliance Certification**
- Regulatory compliance status verification
- Policy adherence and exception management
- Training and competency program effectiveness
- Corrective action completion and effectiveness
- Quarterly certification of control effectiveness
- Documentation of significant control changes
- Identification of material weaknesses or deficiencies
- Commitment to corrective action implementation

12.5.2 Annual External Audit Coordination

- **Documentation Preparation**
- Complete audit trail documentation

- Control testing evidence compilation
- Process documentation update and validation
- Exception and corrective action documentation
- **External Auditor Coordination**
 - Audit scope and timeline coordination
 - Information request response and support
 - Walkthrough and testing support provision
 - Finding response and corrective action planning
- **Post-Audit Activities**
 - Audit finding analysis and response
 - Management letter comment resolution
 - Process improvement implementation
 - Lessons learned documentation and application
- **SOX Compliance:** Full compliance audit and testing
- **Financial Controls:** Complete financial control assessment
- **Operational Efficiency:** Process effectiveness evaluation
- **Technology Controls:** IT general and application controls testing

12.6 Audit Documentation and Reporting

12.6.1 Audit Documentation Standards

- **Audit Planning:** Scope, objectives, and methodology documentation
- **Testing Procedures:** Detailed testing steps and criteria
- **Test Results:** Findings, conclusions, and supporting evidence
- **Follow-up Actions:** Corrective action plans and implementation status
- **Internal Audit:** 7-year retention requirement
- **External Audit:** 10-year retention for compliance
- **Management Reviews:** 5-year retention for performance tracking
- **Exception Reports:** 3-year retention for trend analysis

12.6.2 Audit Reporting and Communication

- **Daily:** Exception reports and immediate findings
- **Weekly:** Compliance testing results and trends
- **Monthly:** Comprehensive audit summary and recommendations
- **Quarterly:** Management certification and strategic review

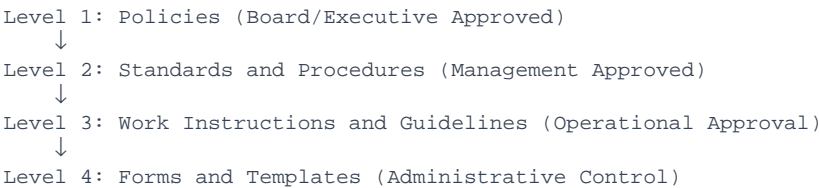
- **Management Letter:** Annual findings and recommendations
- **Compliance Reports:** Regulatory requirement documentation
- **Certification Letters:** External validation and attestation
- **Special Reports:** Issue-specific investigation and analysis

- **Executive Management:** Strategic oversight and decision support
- **Operational Management:** Process improvement and efficiency
- **Audit Committee:** Governance oversight and risk management
- **External Auditors:** Compliance demonstration and cooperation

13. Document Control and Change Management

13.1 Document Control Framework

13.1.1 Document Hierarchy and Classification



Document Type	Owner	Approver	Review Frequency
System Policies	CEO	Board	Annually
SOPs	Operations Manager	CEO	Annually
Work Instructions	Process Owner	Operations Manager	Bi-annually
User Guides	Training Coordinator	Operations Manager	Quarterly
Technical Documentation	IT Manager	Operations Manager	Bi-annually
Forms and Templates	Process Owner	Functional Manager	As needed

13.1.2 Document Identification and Version Control

Format: [CATEGORY]-[TYPE]-[SEQUENCE]-[VERSION]
Example: ASR-SOP-PO-001-v1.0

- Categories:
- ASR: ASR Inc. documents
 - POL: Policy documents
 - SOP: Standard Operating Procedures
 - WI: Work Instructions
 - FORM: Forms and templates
 - TECH: Technical documentation

- **Major Changes:** Full version increment (1.0 → 2.0)
- **Minor Changes:** Decimal increment (1.0 → 1.1)
- **Editorial Changes:** Sub-decimal increment (1.0 → 1.01)
- **Draft Documents:** DRAFT designation with date

13.2 Change Management Procedures

13.2.1 Change Request Process

- **Emergency Changes:** Critical system fixes or security updates
- **Standard Changes:** Regular updates and improvements
- **Major Changes:** Significant system or process modifications
- **Policy Changes:** Regulatory or strategic policy updates

Change Identification → Request Submission → Impact Assessment → Approval Process → Implementation Planning → Testing and Validation → Deployment → Post-Implementation Review

13.2.2 Change Approval Matrix

Change Type	Requestor	Reviewer	Approver	Implementation Authority
Emergency	Any User	IT Manager	Operations Manager	IT Team
Standard	Process Owner	Functional Manager	Operations Manager	Process Owner
Major	Management	Change Board	CEO	Project Manager
Policy	Management	Legal/Compliance	CEO/Board	Management

13.2.3 Change Implementation Procedures

- **Impact Analysis**
 - Business impact assessment
 - Technical feasibility analysis
 - Resource requirement evaluation
 - Risk assessment and mitigation planning
- **Implementation Planning**
 - Detailed implementation timeline
 - Resource allocation and scheduling
 - Communication plan and stakeholder notification
 - Rollback procedures and contingency planning
- **Testing and Validation**
 - User acceptance testing completion
 - System integration testing
 - Performance and security validation

- Documentation update and verification
- **Pre-Implementation Checklist**
 - All approvals obtained and documented
 - Testing completed and results validated
 - Communication plan executed
 - Rollback procedures prepared and tested
- **Implementation Monitoring**
 - Real-time monitoring during deployment
 - Issue identification and immediate resolution
 - Stakeholder communication and status updates
 - Success criteria validation and confirmation
- **Post-Implementation Activities**
 - Implementation success verification
 - Issue resolution and corrective actions
 - Lessons learned documentation
 - Process improvement identification

13.3 Document Review and Approval Procedures

13.3.1 Regular Review Schedule

- **Policies:** Annual review and reaffirmation
- **SOPs:** Annual review with bi-annual updates as needed
- **Work Instructions:** Bi-annual review and validation
- **User Documentation:** Quarterly review for accuracy
- **Technical Documentation:** Annual review with system updates
- System upgrades or major changes
- Regulatory or compliance requirement changes
- Process improvement implementations
- Audit findings or recommendations
- User feedback indicating documentation gaps

13.3.2 Review Process Methodology

- **Content Accuracy Verification**
 - Technical accuracy and current state validation
 - Process flow and procedure correctness

- Reference and link verification
- Example and screenshot currency
- **Compliance Assessment**
 - Regulatory requirement alignment
 - Company policy compliance
 - Industry standard adherence
 - Best practice incorporation
- **Usability Evaluation**
 - User feedback integration
 - Clarity and comprehensiveness assessment
 - Navigation and organization optimization
 - Format and presentation improvement
- **Approval and Publication**
 - Review completion and sign-off
 - Final approval authority authorization
 - Version control and distribution
 - Training and communication planning

13.4 Document Distribution and Access Control

13.4.1 Distribution Management

- **Public:** Available to all system users
- **Internal:** Available to ASR employees only
- **Restricted:** Available to specific roles or departments
- **Confidential:** Available to named individuals only
- **System Help:** Built-in help system and documentation
- **Intranet:** Company intranet portal and document library
- **Training Materials:** Learning management system integration
- **Print Distribution:** Controlled hard copy distribution

13.4.2 Access Control and Security

- **Role-Based Access:** Document access aligned with job responsibilities
- **Authentication Required:** Login required for internal and restricted documents
- **Download Control:** Tracking of document downloads and access
- **Watermarking:** Confidential documents marked with user identification

- **Current Version Availability:** Only current versions accessible
- **Obsolete Document Removal:** Automatic removal of superseded versions
- **Change Notification:** Automatic notification of document updates
- **Historical Archive:** Controlled access to historical versions

13.5 Training and Communication of Changes

13.5.1 Change Communication Strategy

- **Advance Notification**
 - 30-day advance notice for major changes
 - 14-day notice for standard changes
 - Immediate notification for emergency changes
 - Change summary and impact explanation
- **Multi-Channel Communication**
 - Email notifications to affected users
 - System announcements and alerts
 - Team meetings and training sessions
 - Documentation updates and help materials
- **Feedback Collection**
 - User feedback mechanisms and channels
 - Change effectiveness monitoring
 - Improvement suggestion collection
 - Satisfaction measurement and follow-up

13.5.2 Training Requirements for Changes

- **Impact Analysis:** Determination of training requirements
- **Audience Identification:** Affected user groups and roles
- **Training Method Selection:** Appropriate delivery mechanisms
- **Timeline Development:** Training schedule and milestone planning
- **Pre-Change Training:** Advanced training before implementation
- **Just-in-Time Support:** Support during initial implementation
- **Follow-up Training:** Reinforcement and advanced skill development
- **Performance Monitoring:** Training effectiveness measurement
- **Training Records:** Individual training completion tracking

- **Material Updates:** Training material revision and currency
- **Competency Validation:** Skill assessment and certification
- **Continuous Improvement:** Training program enhancement and optimization

14. Emergency Procedures

14.1 Emergency Response Framework

14.1.1 Emergency Classification System

- **System Outage:** Complete system unavailability
- **Security Incident:** Unauthorized access or data breach
- **Data Loss:** Database corruption or data unavailability
- **Critical Business Need:** Urgent purchase order requirements
- **Integration Failure:** QuickBooks or external system connectivity loss

Level	Description	Response Time	Escalation
Critical	Complete business disruption	15 minutes	CEO + IT Manager
High	Significant business impact	1 hour	Operations Manager + IT
Medium	Limited business impact	4 hours	IT Support
Low	Minimal impact, planned resolution	Next business day	Standard Support

14.1.2 Emergency Response Team Structure

- **Incident Commander:** Operations Manager (primary) / CEO (escalated)
- **Technical Lead:** IT Manager / External IT Support
- **Business Continuity Lead:** Operations Manager
- **Communications Lead:** Administrative Manager
- **External Coordinator:** CEO (vendor/customer communications)

- **Division Leaders:** Business impact assessment and user communication
- **Accounting Lead:** Financial system restoration and verification
- **Legal/Compliance:** Regulatory notification and compliance management
- **External Support:** Vendor support teams and specialized consultants

14.2 System Outage Procedures

14.2.1 Immediate Response Protocol

- **Incident Detection and Verification**
 - Confirm system outage scope and impact
 - Identify affected users and business processes
 - Determine root cause if immediately apparent
 - Document incident start time and initial assessment
- **Initial Notification**
 - Notify Operations Manager and IT support immediately
 - Send system status alert to all users
 - Activate emergency response team
 - Begin detailed impact assessment
- **Immediate Stabilization**
 - Prevent further system damage or data loss
 - Activate backup systems if available
 - Secure affected systems and data
 - Begin root cause investigation

14.2.2 Business Continuity Activation

During system outage, critical purchase order functions continue using manual procedures:

- **Emergency PO Authorization Process**
 - **Verbal Authorization:** Division Leaders may authorize emergency purchases up to \$5,000
 - **Documentation Requirement:** Complete written documentation within 4 hours
 - **Escalation Path:** Operations Manager approval for amounts \$5,000-\$25,000
 - **CEO Authorization:** Required for amounts exceeding \$25,000
- **Manual Documentation Requirements**
 - **Emergency PO Form:** Pre-printed forms for critical purchases
 - **Approval Signatures:** Physical signatures required
 - **Vendor Communication:** Direct vendor contact and confirmation
 - **Financial Tracking:** Manual tracking spreadsheet maintenance
- **Post-Recovery Data Entry**
 - **Priority System:** Urgent transactions entered first
 - **Verification Process:** Dual verification for manual transaction entry
 - **Audit Trail:** Complete documentation of manual process usage
 - **Reconciliation:** Verification of manual vs. system data

14.2.3 System Recovery Procedures

- **Core System Restoration**
 - Database recovery and integrity verification
 - Application services restoration
 - Basic user authentication and access
- **Critical Function Restoration**
 - Purchase order creation and approval capabilities
 - Real-time budget checking and availability
 - Vendor database and contact information
- **Integration Restoration**
 - QuickBooks connectivity and synchronization
 - Email notification systems
 - Reporting and analytics capabilities
- **Full Service Restoration**
 - Mobile application functionality
 - Advanced reporting and analytics
 - System optimization and performance tuning

14.3 Security Incident Response

14.3.1 Immediate Security Response

- **Automated Alerts:** Intrusion detection system notifications
- **User Reports:** Suspicious activity or unauthorized access reports
- **System Anomalies:** Unusual system behavior or performance issues
- **External Notifications:** Vendor or partner security alerts
- **Incident Containment**
 - Isolate affected systems and prevent spread
 - Disable compromised user accounts
 - Preserve evidence and system logs
 - Document all response actions taken
- **Impact Assessment**
 - Identify compromised data and systems
 - Assess potential business and financial impact
 - Determine if customer or vendor data affected
 - Evaluate regulatory notification requirements

- **Stakeholder Notification**

- Notify CEO and legal counsel immediately
- Inform cyber insurance carrier if applicable
- Prepare regulatory notifications if required
- Coordinate with law enforcement if criminal activity suspected

14.3.2 Security Incident Investigation

- **Evidence Preservation**

- Create forensic copies of affected systems
- Preserve system logs and audit trails
- Document system state and configuration
- Maintain chain of custody for all evidence

- **Root Cause Analysis**

- Identify attack vector and methodology
- Determine extent of system compromise
- Assess effectiveness of existing security controls
- Identify vulnerabilities exploited in attack

- **Damage Assessment**

- Catalog all affected data and systems
- Assess financial impact and recovery costs
- Evaluate reputation and business relationship impact
- Determine regulatory and legal implications

14.3.3 Security Recovery and Remediation

- **Vulnerability Remediation**

- Patch all identified security vulnerabilities
- Update security configurations and controls
- Implement additional security measures as needed
- Conduct security testing before system restoration

- **Account and Access Recovery**

- Reset all potentially compromised passwords
- Review and update user access permissions
- Implement additional authentication requirements
- Monitor user activity for ongoing threats

- **System Monitoring Enhancement**

- Enhance security monitoring and alerting

- Implement additional intrusion detection capabilities
- Increase audit logging and review procedures
- Conduct regular security assessments

14.4 Critical Business Continuity

14.4.1 Emergency Purchase Authorization

- **Health and Safety:** Immediate threat to employee or public safety
- **Regulatory Compliance:** Legal deadline or regulatory requirement
- **Business Continuity:** Critical system or equipment failure
- **Customer Commitment:** Contractual obligation or customer emergency
- **Immediate Authorization** (Within 2 Hours)
 - Division Leader: Up to \$5,000 emergency authorization
 - Operations Manager: Up to \$25,000 with documentation
 - CEO: Unlimited authority with full justification
- **Documentation Requirements**
 - **Emergency Justification:** Detailed explanation of emergency nature
 - **Business Impact:** Description of impact if purchase delayed
 - **Approval Authority:** Clear identification of approving authority
 - **Follow-up Actions:** Required post-emergency documentation
- **Post-Emergency Procedures**
 - **System Entry:** Enter emergency PO within 24 hours of system restoration
 - **Audit Trail:** Complete documentation of emergency authorization
 - **Process Review:** Evaluation of emergency response effectiveness
 - **Improvement Planning:** Identification of process improvements

14.4.2 Vendor and Supplier Coordination

- **Primary Contacts:** Direct phone numbers for key vendor contacts
- **Alternative Contacts:** Backup contacts for critical suppliers
- **Emergency Procedures:** Vendor-specific emergency ordering procedures
- **Payment Expediting:** Accelerated payment processes for emergency purchases
- **Alternative Suppliers:** Pre-approved backup suppliers for critical items
- **Emergency Sourcing:** Procedures for rapid vendor qualification
- **Logistics Coordination:** Emergency delivery and shipping arrangements
- **Quality Assurance:** Expedited quality verification procedures

14.5 Communication and Coordination

14.5.1 Internal Communication Protocols

Incident Detection → Operations Manager → CEO → Division Leaders → All Staff
↓
IT Support Team → External Support (if needed)
↓
Legal/Compliance (if required) → Regulatory Authorities

- **Immediate Notification:** Key stakeholders notified within 15 minutes
- **Status Updates:** Hourly updates during active incident response
- **Resolution Notification:** All stakeholders notified upon resolution
- **Post-Incident Report:** Comprehensive incident report within 48 hours

14.5.2 External Communication Management

- **Proactive Notification:** Inform affected customers and vendors promptly
- **Regular Updates:** Provide status updates and estimated resolution times
- **Service Restoration:** Notify all parties when services fully restored
- **Follow-up Communication:** Post-incident communication and relationship management
- **Regulatory Requirements:** Notify regulators within required timeframes
- **Legal Consultation:** Engage legal counsel for significant incidents
- **Insurance Notification:** Notify insurance carriers for covered incidents
- **Law Enforcement:** Coordinate with authorities for criminal matters

14.5.3 Post-Emergency Review and Improvement

- **Immediate Debrief** (Within 24 hours)
 - Response effectiveness evaluation
 - Timeline and decision-making review
 - Resource utilization assessment
 - Initial lessons learned identification
- **Comprehensive Analysis** (Within 1 week)
 - Detailed root cause analysis
 - Process effectiveness evaluation
 - Cost and impact assessment
 - Stakeholder feedback collection

- **Improvement Planning** (Within 2 weeks)
 - Process improvement recommendations
 - Training and preparedness enhancements
 - Technology and tool improvements
 - Prevention strategy development
- **Incident Documentation:** Complete incident record and timeline
- **Lessons Learned:** Documented insights and improvement opportunities
- **Process Updates:** Revisions to emergency procedures and protocols
- **Training Updates:** Enhanced training based on incident experience

15. Appendices

15.1 System Configuration Reference

15.1.1 User Role Configuration Matrix

Permission	Division Leader	Operations Manager	Accounting	Majority Owner	IT Administrator
Create PO	✓	✓	✓	✓	✗
Approve ≤\$1K	✓	✓	✓	✓	✗
Approve ≤\$25K	✓	✓	✓	✓	✗
Approve >\$25K	✗	✓	✓	✓	✗
Manage Vendors	View Only	✓	✓	✓	✗
User Management	✗	Limited	Limited	✓	✓
System Config	✗	✗	Limited	✓	✓
All Reports	Division Only	✓	✓	✓	✗
Audit Logs	Division Only	✓	✓	✓	✓

15.1.2 GL Account Code Reference

50-54: Direct Labor
 50: Regular wages and salaries
 51: Overtime wages
 52: Temporary labor
 53: Benefits and payroll taxes
 54: Workers compensation

55-59: Materials and Supplies
 55: Construction materials
 56: Office supplies
 57: Safety equipment
 58: Maintenance supplies
 59: Miscellaneous materials

60-64: Equipment and Tools
 60: Hand tools
 61: Power tools
 62: Heavy equipment rental
 63: Vehicle expenses

- 64: Equipment maintenance
- 65-69: Capital Equipment
 - 65: Machinery and equipment purchases
 - 66: Vehicles and trucks
 - 67: Computer equipment
 - 68: Furniture and fixtures
 - 69: Leasehold improvements
- 70-74: Subcontractor Services
 - 70: Trade contractors
 - 71: Professional services
 - 72: Specialized services
 - 73: Emergency services
 - 74: Warranty work
- 75-79: Professional Services
 - 75: Legal services
 - 76: Accounting services
 - 77: Consulting services
 - 78: Training and education
 - 79: Marketing and advertising
- 80-84: Utilities and Facilities
 - 80: Rent and lease payments
 - 81: Utilities (electric, gas, water)
 - 82: Telephone and internet
 - 83: Insurance premiums
 - 84: Property taxes
- 85-89: Administrative
 - 85: Office rent
 - 86: Administrative salaries
 - 87: Office equipment
 - 88: Communications
 - 89: General administrative
- 90-94: Travel and Transportation
 - 90: Vehicle fuel
 - 91: Travel expenses
 - 92: Shipping and freight
 - 93: Parking and tolls
 - 94: Vehicle maintenance
- 95-99: Other Expenses
 - 95: Bank fees
 - 96: Interest expense
 - 97: Depreciation
 - 98: Bad debt expense
 - 99: Miscellaneous expenses

15.2 Process Flow Diagrams

15.2.1 Standard Purchase Order Workflow

```

flowchart TD
    A[User Creates PO] --> B{Budget Available?}
    B -->|No| C[Budget Override Request]
    B -->|Yes| D{Amount ≤ $1,000?}
    C --> E[Operations Mgr Review]
    E -->|Approved| D
    E -->|Rejected| F[Return to User]
    D -->|Yes| G[Division Leader Approval]
    D -->|No| H{Amount ≤ $25,000?}
    H -->|Yes| I[Division Leader + Ops Mgr]
    H -->|No| J[All Approval Levels]
    G --> K[Accounting Review]
    I --> K
    J --> K
    K --> L[QuickBooks Sync]
    L --> M[PO Active]
    F --> N[PO Cancelled]

```

15.2.2 Emergency Purchase Workflow

```

flowchart TD
    A[Emergency Identified] --> B{Amount ≤ $5,000?}
    B -->|Yes| C[Division Leader Approval]
    B -->|No| D{Amount ≤ $25,000?}
    D -->|Yes| E[Operations Mgr Approval]
    D -->|No| F[CEO Approval]
    C --> G[Verbal Authorization]
    E --> G
    F --> G
    G --> H[Vendor Contact]
    H --> I[Purchase Executed]
    I --> J[Manual Documentation]
    J --> K{System Available?}
    K -->|Yes| L[Enter in System]
    K -->|No| M[Hold for System]
    L --> N[Reconcile & Verify]
    M --> O[Enter When Available]
    O --> N

```

15.3 Forms and Templates

15.3.1 Emergency Purchase Order Form

Form ID: ASR-FORM-EPO-001
Effective Date: 2026-01-12

EMERGENCY PURCHASE ORDER

PO Number: _____ Date: _____
Emergency Classification: ☐ Critical ☐ High ☐ Medium

PROJECT INFORMATION:

Project Code: _____
Work Order: _____
Project Name: _____

VENDOR INFORMATION:

Vendor Name: _____
Contact Person: _____
Phone: _____ Email: _____

EMERGENCY JUSTIFICATION:

☐ Health/Safety Emergency
☐ Equipment Failure
☐ Regulatory Deadline
☐ Customer Emergency
☐ Other: _____

Detailed Justification:

ITEMS/SERVICES:

Description	Quantity	Unit Price	Total
-------------	----------	------------	-------

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SUBTOTAL: _____

TAX: _____

TOTAL: _____

APPROVALS:

Division Leader: _____ Date: _____
Operations Manager: _____ Date: _____
CEO (if >\$25K): _____ Date: _____

SYSTEM ENTRY:

Entered By: _____
Date Entered: _____
PO Number Assigned: _____

15.3.2 Vendor Setup Form

Form ID: ASR-FORM-VS-001
Effective Date: 2026-01-12

NEW VENDOR SETUP REQUEST

COMPANY INFORMATION:

Legal Name: _____
DBA Name: _____
Federal Tax ID: _____
Business Type: ☐ Corporation ☐ LLC ☐ Partnership ☐ Sole Proprietorship

CONTACT INFORMATION:

Primary Contact: _____
Title: _____
Phone: _____ Ext: _____
Email: _____
Fax: _____

BILLING ADDRESS:

Street: _____
City: _____ State: _____ ZIP: _____

SHIPPING ADDRESS:

☐ Same as Billing

Street: _____
City: _____ State: _____ ZIP: _____

BUSINESS INFORMATION:

Years in Business: _____
Number of Employees: _____
Annual Revenue: _____

SERVICES/PRODUCTS:

Primary Services: _____
Secondary Services: _____
Specialty Areas: _____

FINANCIAL INFORMATION:

Preferred Payment Terms: _____
Banking Information: _____
Credit References: _____

INSURANCE INFORMATION (if applicable):

General Liability: _____ Amount: _____
Workers Compensation: _____ Amount: _____
Professional Liability: _____ Amount: _____
Certificate on File: _____ Expiration: _____

REQUIRED ATTACHMENTS:

- ☐ W-9 Form
- ☐ Certificate of Insurance
- ☐ Business License
- ☐ References (3 minimum)

APPROVAL:

Requested By: _____ Date: _____
Division: _____
Operations Manager: _____ Date: _____

15.4 Troubleshooting Guides

15.4.1 Common System Issues

Symptoms:

- Invalid username/password error

- Account locked message
- System not recognizing credentials

Troubleshooting Steps:

1. Verify username is ASR email address
2. Check if Caps Lock is enabled
3. Try password reset function
4. Clear browser cache and cookies
5. Try different browser
6. Contact IT support if issue persists

Common Causes:

- Expired password
- Account lockout after failed attempts
- Browser cache issues
- System maintenance

Resolution:

- Password reset via email
- Administrator unlock account
- Browser cache clear
- Wait for maintenance completion

Symptoms:

- Submit button not responding
- Error messages on submission
- Form validation errors

Troubleshooting Steps:

1. Check all required fields completed
2. Verify budget availability
3. Confirm vendor is approved
4. Check GL account codes
5. Review approval limits
6. Try refreshing page

Common Causes:

- Missing required information
- Budget insufficient
- Non-approved vendor
- Invalid GL codes
- Browser session timeout

Resolution:

- Complete all required fields
- Request budget increase
- Add vendor to approved list
- Correct GL account codes
- Refresh session/login again

15.4.2 Mobile App Issues

iOS Troubleshooting:

1. Use Safari browser only
2. Ensure iOS 13+ installed

3. Check available storage (50MB)
4. Try in private browsing mode
5. Restart device and retry

Android Troubleshooting:

1. Use Chrome browser only
2. Ensure Android 8.0+ installed
3. Check available storage (75MB)
4. Clear Chrome cache
5. Update Chrome to latest version

Common Solutions:

- Use supported browser
- Free up storage space
- Update operating system
- Clear browser cache
- Restart device

Troubleshooting Steps:

1. Check notification permissions in device settings
2. Verify app is added to home screen
3. Check "Do Not Disturb" settings
4. Ensure app has background refresh enabled
5. Test with manual refresh

iOS Specific:

- Settings → Notifications → [App] → Allow Notifications
- Check Focus/Do Not Disturb settings

Android Specific:

- Settings → Apps → [App] → Notifications
- Check battery optimization settings

Resolution:

- Enable notifications in device settings
- Add app to home screen properly
- Disable Do Not Disturb
- Allow background app refresh

15.5 Contact Information and Support

15.5.1 Technical Support Contacts

- **Help Desk:** akidwell@asr-inc.us
- **Phone:** 1-XXX-XXX-XXXX
- **Hours:** Monday-Friday 8:00 AM - 6:00 PM PST
- **Emergency:** 1-XXX-XXX-XXXX (24/7)
- **System Administrator:** Austin Kidwell (akidwell@asr-inc.us)
- **System Administrator:** admin@yourdomain.com

- **Database Issues:** db-admin@yourdomain.com
- **QuickBooks Integration:** qb-support@yourdomain.com
- **Security Issues:** security@yourdomain.com

15.5.2 Business Process Support

- **Purchase Order Process:** Operations Manager
- **Approval Workflow:** Operations Manager
- **Vendor Management:** Operations Manager
- **Financial Integration:** Accounting Manager
- **Reporting:** Business Intelligence Manager
- **User Training:** training@yourdomain.com
- **Documentation Updates:** docs@yourdomain.com
- **Video Tutorials:** Available in system help section
- **FAQ Updates:** Submit via help system

15.5.3 Emergency Contacts

- **CEO:** [Emergency Contact Information]
- **Operations Manager:** [Emergency Contact Information]
- **IT Emergency Line:** 1-XXX-XXX-XXXX
- **Security Emergency:** security-emergency@yourdomain.com
- **System Hosting:** [Render.com Support]
- **Database Support:** [PostgreSQL Support]
- **Email Services:** [Email Provider Support]
- **Internet/Network:** [ISP Support]

Document Approval and Sign-off

Role	Name	Signature	Date
Document Author	Austin Kidwell	_____	_____
Technical Reviewer	IT Operations Manager	_____	_____
Process Owner	Operations Manager	_____	_____
Quality Assurance	Compliance Officer	_____	_____
Final Approver	Chief Executive Officer	_____	_____

- All ASR Division Leaders
- Operations Management Team
- Accounting Department
- IT Support Team
- Training Coordinators
- Document Control Administrator

By using the ASR Purchase Order System, all users acknowledge they have read, understood, and agree to follow this Standard Operating Procedure. Failure to follow these procedures may result in disciplinary action and could compromise the effectiveness of our internal controls.

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