

# **NUT AGI FRAMEWORK: Human Oversight Procedures**

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## **1. Overview**

Nut AGI implements a comprehensive human oversight framework through the Safety Net Protocol (SNP) to ensure safe, transparent, and accountable AI operations. Human oversight is mandatory for all high-risk decisions and is structured across three levels:

**Level 1:** Automated monitoring with human-in-the-loop alerts

**Level 2:** Human review and approval for medium-risk decisions

**Level 3:** Mandatory human intervention for high-risk/critical decisions

## **2. Safety Net Protocol (SNP) Components**

### **2.1 GAN-Based Critic**

- Trained on 1M synthetic failure cases + 10k red-team scenarios
- Discriminator loss threshold:  $D\text{-loss} < 0.1$
- Flags outputs that deviate from safe patterns
- 98% adversarial input flagging rate in pre-beta testing

### **2.2 Confidence Threshold**

**Pre-Beta Standard:** 95% confidence ( $p=0.05$  binomial test)

**Deployment Standard:** 99.5% confidence (EU AI Act + NIST 800-53 High Impact)

**Override Mechanism:** Human override required when confidence  $p < \text{threshold}$

### **2.3 Audit Ledger**

- SHA-256 cryptographic hashing of all decisions
- Immutable blockchain-style ledger
- Merkle tree construction for regulatory audits
- Real-time access for regulators and compliance officers

### 3. Role-Based Oversight Structure

Role	Responsibilities	Qualifications
AI Safety Monitor	• Monitor SNP alerts 24/7 • Escalate medium/high-risk flags • Document all interventions	• AI/ML degree or equivalent • 2+ years AI safety experience • Security clearance for sensitive data
Domain Expert	• Review domain-specific outputs (finance, legal, medical) • Approve/reject high-stakes decisions • Provide feedback for model improvement	• Professional certification in relevant domain • 5+ years industry experience • Understanding of AI limitations
Compliance Auditor	• Conduct quarterly audit reviews • Verify regulatory compliance • Generate audit reports for regulators	• Legal/compliance background • GDPR/AI Act expertise • Internal audit certification (CIA/CISA)
Ethics Committee	• Review ethically ambiguous cases • Set ethical guidelines and policies • Investigate high-profile incidents	• Diverse backgrounds (ethics, law, tech, social sciences) • Independence from operational teams
Executive Oversight	• Final authority on kill-switch activation • Strategic oversight of AI safety • Board-level reporting	• C-suite or Board level • Accountability for AI governance

### 4. Decision Classification and Review Requirements

Risk Level	Examples	Oversight Requirement
LOW	• General Q&A • Content summarization • Creative ideation • Code suggestions (non-critical)	• Automated monitoring only • Quarterly audit sample review
MEDIUM	• Business analytics • Market trend analysis • Non-critical financial recommendations • HR screening support (non-binding)	• Random sampling review (10%) • AI Safety Monitor approval for flagged cases • Monthly audit
HIGH	• Credit scoring • Hiring/promotion decisions • Portfolio allocation >\$100k • Regulatory compliance outputs	• 100% human review required • Domain Expert approval mandatory • Real-time audit logging • Weekly review by Ethics Committee
CRITICAL	• Safety-critical infrastructure • Medical diagnosis/treatment • National security applications • Mass financial transactions	<b>NOT APPROVED</b> for autonomous operation • Human-only decision authority • Nut provides support/analysis only

## **5. Kill-Switch Procedures**

### **Activation Triggers:**

- Systematic bias detected (>10% disparate impact)
- Security breach or unauthorized access attempt
- Repeated SNP confidence threshold failures
- Regulatory or legal violation
- Unintended self-evolution patterns (ASI risk)

### **Kill-Switch Authority:**

**Level 1:** AI Safety Monitor (partial shutdown - specific modules)

**Level 2:** Chief Technology Officer (system-wide pause)

**Level 3:** CEO / Board (permanent shutdown)

### **Execution Process:**

1. Emergency alert triggers automated system pause (< 5 seconds)
2. Immediate notification to oversight team and executives
3. Incident investigation and root cause analysis
4. Remediation plan development and approval
5. Phased restart only after Executive Oversight approval

## **6. Escalation Protocols**

### **Standard Escalation Path:**

AI Safety Monitor → Domain Expert → Compliance Auditor → Ethics Committee → Executive Oversight

### **Time-Based Escalation:**

- Immediate: Critical safety issues (kill-switch activation)
- 1 hour: High-risk decision requiring expert review
- 24 hours: Unresolved medium-risk flags
- 1 week: Recurring low-risk issues indicating systemic problem

## **7. Training and Competency**

### **Initial Training (all oversight personnel):**

- Nut AGI technical architecture and limitations (8 hours)
- AI ethics and bias recognition (4 hours)
- Regulatory compliance (EU AI Act, GDPR, sector-specific) (6 hours)
- SNP operations and kill-switch procedures (4 hours)
- Incident response and escalation (2 hours)

**Ongoing Training:**

- Quarterly refresher courses
- Annual recertification exam
- Case study reviews of real incidents (monthly)

**8. Reporting and Documentation**

**Real-Time Logs:** All human interventions logged with timestamp, user ID, decision rationale

**Weekly Reports:** Summary of flagged cases, interventions, and trends

**Monthly Reviews:** Oversight effectiveness metrics and improvement recommendations

**Quarterly Audits:** Comprehensive compliance review with external auditor participation

**Annual Transparency Report:** Public disclosure of oversight activities and safety metrics

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