# Discount Policy Definitions for Policy Engine

## Policy 1: Contract Discount Enforcement Policy

Trigger:  
- Invoiced unit price or discount differs from the agreed contractual discount rate by more than 3%.  
- Supplier contract is active and discount schedule is defined.  
- Invoice is fully paid and falls within the discount agreement period.  
  
Conditions:  
- Applied discount < contracted discount  
- Discount variance > 3%  
- Invoice volume > 10 units or value > £5,000  
  
Policy Logic:  
- Calculate the variance between actual and contracted discount.  
- Score opportunity based on variance % and total financial impact.  
- If opportunity score ≥ 7.0, escalate for supplier engagement.  
  
Actions:  
- Route to Opportunity Miner Agent for scoring and savings estimation.  
- If confirmed, escalate to Human-in-the-Loop Agent.  
- LLM Drafting Agent to prepare supplier outreach message.  
- Audit Trail Agent to record mismatch and resolution status.

## Policy 2: Systematic Overpayment Policy

Trigger:  
- Repeated price variance between invoiced price and expected price over multiple transactions for the same item or supplier.  
  
Conditions:  
- Minimum 3 matched transactions over past 6 months.  
- Invoice price higher than contract or benchmark price by > 5%.  
- Cumulative overpayment > £10,000.  
  
Policy Logic:  
- Detect recurring overcharges across invoices or categories.  
- Assess whether discrepancies represent supplier behavior pattern.  
- Calculate total overpayment and assign opportunity score.  
  
Actions:  
- Forward discrepancy to Opportunity Miner Agent and Discrepancy Detection Agent.  
- Flag pattern in supplier scorecard.  
- If score > 8, trigger commercial renegotiation workflow.  
- Notify Human-in-the-Loop Agent for validation and intervention.  
- Log incident in Audit Trail Agent and attach affected invoices.