GTS Contracting System
Context Diagram

Rejected P.O. and invalid letter

Agency

P.O.

0. Contracting System

Equipment items and Invoice
GTS Contracting System
"Level 0" Diagram

1.0 Enter P.O.
- Contract #, P.O.
- Item in/out of stock
- Warehouse flag

2.0 Review P.O.
- Contract info
- P.O. and invalid letter
- Valid PO: PO# outstanding flag
- Not Valid PO: Letter

3.0 Check Inventory.
- Item in/out of stock; Warehouse flag
- Warehouse flag and P.O. item information
- P.O and Shipping bill

4.0 Ship Items
- Invoice

5.0 Close P.O.
- PO closed flag; Shipping bill; Exception report
- Items taken
GTS Contracting System

1.0 Enter P.O.

Functional Description

Enter CONTRACT NUMBER into the Contract/PO datastore
GTS Contracting System

2.0 Review P.O.

Functional Description

Determine if PO is valid
  1.1. Review terms and conditions
  1.2. Review expiration date
  1.3. Ensure equipment types are listed on the original contract
  1.4. Ensure that total cost of equipment ordered does not exceed predetermined limit.

If PO Valid,

Enter PO number and outstanding flag in P.O. contract data store

Else send PO back to agency with reject letter
GTS Contracting System

Depending on the complexity of the subprocesses, there would either be lower level DFDs describing the processes further, or structured english functional descriptions written for these other subprocesses in the Level 0 diagram:

3.0 Check inventory

4.0 Ship Items

5.0 Close P.O.

Each one of these are sufficiently simple that they would probably be written as functional descriptions rather than another DFD.