Use Case Name: Request a chemic	cal	ID: UC-2	Priority: High
Actor: Lawn Chemical Applicator (LCA)			
Description: The Lawn Chemical Applicator (LCA) specifies the lawn chemical needed for a job by entering its name or ID number. The system satisfies the request by reserving the quantity requested or the quantity available and notifying the Chemical Supply Warehouse of the pick-up.			
Trigger: A Lawn Chemical Applicator (LCA) needs a chemical for a job.			
Type: 🗹 External 🗌 Temporal			
Preconditions: 1. The LCA identity is authenticated.			
2. The LCA has necessary training and credentials on file.			
3. The Chemical Supply datastore is up-to-date and on-line.			
Normal Course:		Informa	ation for Steps:
1.0 Request a lawn chemical from the chemical supply warehouse. 1. The LCA specifies the desired lawn chemical Chemical nam			al name or ID
			approved chemicals
3. The system displays the quantity of the lawn chemical on hand Quantity on I			
4. The LCA specifies the quantity needed 5. The system asks the LCA to confirm the request for the quantity needed or the			
quantity available (Alternative Course 1.1)			t confirmation
			al Pick-up Authorization
			al Pick-up Notice nemical Request
Alternative Courses: 1.1 Quantity available is less than quantity needed (branch at step 5) 1. The system asks the LCA if he wants the quantity available or to cancel the request 2a. The LCA asks to take the quantity available 3a. The system changes the quantity requested to the quantity available 4a. The system gives the LCA a Chemical Pick-up-Authorization for the quantity available 4a. The system notifies the Chemical Supply Warehouse of the chemical pick-up 6a. The system stores the Lawn Chemical Request in the Chemical Management System 7a. The system notifies Purchasing of the chemical outage 2b. The LCA asks to cancel the request 3b. The system terminates the use case Postconditions: 1. The Lawn Chemical Request is stored in the Chemical Management System. 2. The Chemical Pick-up Authorization is produced for the LCA. 3. The Chemical Supply Warehouse is notified of the chemical pick-up. 4. Purchasing is notified of chemical outage. Exceptions: E1: Chemical is no longer approved for use (occurs at step 2) 1. The system displays message. "That chemical is no longer approved for use" 2. The system asks the LCA if he wants to request another chemical or to exit 3a. The LCA asks to request another chemical 4a. The system starts Normal Course again 3b. The LCA asks to exit 4b. The system terminates the use case			
Summary			
Inputs	Source	Outputs	Destination
Chemical name or ID List of approved chemicals	LCA Lawn Chemicals Supply datastore	Chemical Pick-up Authorization	LCA
Chemical quantity on hand	Lawn Chemicals Supply datastore	Chemical Pick-up Notice	Chemical Supply
Quantity needed	LCA Warehouse		
Request quantity	· · · · · · · · · · · · · · · · · · ·		Chemical Request datastore
Request quantity available or	20/1	Chemical Outage Notice	Purchasing

FIGURE 4-1

cancellation