



071707-00001-081298

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Systems Integration Group, Inc.

PM 91

71707-1

8/12/98

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511W)
401 M Street, S.W.
Washington, DC 20460

EPA Reg. Number:

71707-1

Date of Issuance:

AUG 12 1998

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:

STEM-TEK Crop Biostimulant

Name and Address of Registrant (include ZIP Code):

GRO-TEK, Inc.
10920 S.E. 29th Street, #8
Milwaukie, OR 97222

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The Food Quality Protection Act (FQPA) was signed into law on August 3, 1996. Although full implementation of FQPA has not been achieved, the Agency has no reason to believe that the registration of this product will, in any way, violate the terms of the Act. If EPA determines, as a result of the FQPA implementation process, that the decision to register this product is no longer appropriate, the Agency will consider itself free to pursue whatever action may be appropriate, including, but not limited to, reconsideration of the registration decision.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

1. Submit and /or cite all data required for registration/reregistration of your product under FIFRA Sec.3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Sec.4.
2. Submit one copy of the final printed labeling before you release the product for shipment.
3. Make the labeling changes listed below before you release the product for shipment:

-- Add the phrase "EPA Registration No. " 71707-1.

Signature of Approving Official: See page 2 for signature of approving official

Date:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

-- Correct the spelling of carrots and ornamentals in the use directions.

This registration will be subject to cancellation in accordance with FIFRA sec. 6(e) if you do not comply with these conditions. Your release for shipment constitutes acceptance of these conditions.

A stamped copy of the draft label is enclosed for your records.

Any questions may be directed to Richard King, Regulatory Action Leader for this action, at (703) 308-8052, fax (703) 308-7026.

Sincerely,

Janet L. Andersen

Janet L. Andersen, Ph.D.
Director
Biopesticides and Pollution
Prevention Division (7511C)

CONCURRENCES

SYMBOL	7511C	7511C					
SURNAME	R. King	Janet L. Andersen					
DATE	7/30/98	7/30/98					

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ACCEPTED
with COMMENTS
In EPA Letter Dated
AUG 12 1998
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
71707-1

STIM-TEK CROP BIOSTIMULANT

For Maximizing Crop Yield and Quality

Active Ingredients:

Cytokinin (as kinetin)	0.01%*
Inert ingredients	99.99%
TOTAL	100.00%

*Based on biological activity

KEEP OUT OF REACH OF CHILDREN

CAUTION

READ ALL DIRECTIONS BEFORE USING

PRECAUCION AL USUARIO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through the skin. Causes skin irritation. Do not breathe vapor or spray mist. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling.

Statement of Practical Treatment

IN CASE OF CONTACT, Wash skin with soap and water. FOR EYES, flush with plenty of water Get medical attention if irritation persists.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when conditions favor drift from treated areas.

Emergency Information

For spill, leak, fire, exposure or accident call GRO-TEK, INC. 1-503-654-1345.

NET CONTENTS: _____

Manufactured for:
GRO-TEK, INC.
10920 S.E. 29th ST. #8
MILWAUKIE, OR 97222
U.S.A.

EPA REG. NO: 71707-R
EPA EST. NO:
Lot. Number: _____

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear long sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read, understand and follow the precautions and directions on the labeling before using.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval(REI) of 24 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, shoes plus socks and protective eyewear.

GENERAL INFORMATION

STIM-TEK is a plant growth regulator extracted from specially selected marine plants which stimulates plant growth and development, promoting:

- Increased yields
- Increased fruit set
- Improved resistance to environmental stress
- Earlier maturity
- Improved crop quality

RECOMMENDED CROPS

STIM-TEK is recommended for use on:

FIELD CROPS:

ALFALFA (includes alfalfa, lucerne, sainfoin, holy clover, esparcet, birdsfoot, trefoil and varieties and/or hybrids of these)

CORN (includes Field Corn and Popcorn)

COTTON

LU PINE

PEANUTS
RICE
SORGHUM (Milo)
SOYBEANS
SUGAR BEETS
TRITICALE
WHEAT

FRUITS:

APPLES
BANANAS
GRAPES
ORANGES
PEACHES
PLANTAINS
STRAWBERRIES

VEGETABLES:

ASPARAGUS
BEANS (also includes Black-eyed Peas, Catjang, Chick Peas, Cowpeas, Crowder Peas, Garbanzo Beans, Southern Peas, Kidney Beans, Lima Beans, Mung Beans, Navy Beans, Pinto Beans, Snap Beans, Wax Beans, Broad Beans, Fava Beans and Asparagus Beans)
BROCCOLI (includes Chinese Broccoli)
BRUSSELS SPROUTS
CABBAGE
CAR ROTS
CAULIFLOWER
CELERY
CORN (Sweet)
CUCUMBER
EGGPLANT
GARLIC
LETTUCE
MELONS
OKRA
ONIONS
PARSLEY
PEAS (includes Lentils)
PEPPERS
POTATOES
PUMPKINS
RADISHES
SHALLOTS
SPINACH
SQUASH
SWEET POTATOES
TOMATOES (includes Tomatillos)

NON FOOD CROPS:

JOJOBA

ORNAMENTALS
TREES
TURF

MIXING INSTRUCTIONS:

STIM-TEK is water soluble and suitable for use in conventional liquid application systems. Acidic dilution water (**pH less than 5**) **should be adjusted to neutral pH (6.5—8.0) prior to the addition** of STIM-TEK. Agitate the tank mixture during application and use within 24 hours after dilution.

COMPATIBILITY:

STIM-TEK can be tank mixed (unless prohibited) with foliar fertilizers. Test the compatibility of the intended tank mixture before use. Add the proportionate amounts of each diluted ingredient to a jar. Cover, shake and let stand 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture.

APPLICATION RATES AND TIMING

Seed Treatment: To coat seeds prior to planting, apply STIM-TEK at the rate of 4 oz/5 Gallons water and coat seeds briefly before planting; or, apply 2 oz/5 Gallons water directly on peat pots, planting mixture or seed bed immediately before planting.

Nursery/Container Use: Apply STIM-TEK as a fine mist spray to container grown plants at the rate of 2 oz/5 Gallons of water, every 2-4 weeks. Mist leaves thoroughly but not to the point of excessive run off.

Rooting and Transplant Solution: Dip cuttings in a STIM-TEK solution of 8 oz/5 Gallons water before rooting. For use as a rooting medium, setting cuttings in a solution of 2 oz/5 Gallons water. Immediately before transplanting, dip roots in a 4 oz/ 5 Gallons water solution.

Chemigation: Refer to supplemental labeling entitled "Supplemental Chemigation Labeling for STIM-TEK" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

Foliar Spray: STIM-TEK is most effective when used as part of a regular foliar nutritional spray program, and can be applied with any standard fertilizer or crop protection spray system. The foliar spray mixture should be applied as a fine mist, with low fluid velocity until the foliage is wet. Where common, a biodegradable surfactant can be used.

Do not spray just prior to and after rainfall. Apply in calm weather conditions, preferably in early morning or in the evening. A foliar spray mixture of 25-100 gallons of water per acre is generally sufficient. The volume of water may vary depending on equipment used, area to be covered, and size of plants.

For large areas where aircraft or power driven sprayers are used to apply the spray, follow the specific crop use rates below. Apply with sufficient water to get thorough foliage coverage, 3 to 10 gallons water per acre for aircraft sprayers and 10 to 50 gallons water per acre for ground driven spray equipment.

Crop Foliar Applications: The suggested rates and dosages for foliar applications of STIM-TEK may be adjusted depending on the climatic region, soil type and fertility. For best results increase

the frequency of applications rather than the concentration of the spraying solution. Additional applications can be made as required, and/or immediately prior or following stress periods such as frost or drought.

CROP	APPLICATION STAGES	DOSAGE/ APPLICATION
<u>VEGETABLES:</u>		
ASPARAGUS	1. For newly established plants, make 1 application to new flush or fern growth in spring	1.5-2 pints/A
	2. For mature crops, make 1 application to new fern growth after cuttings have stopped.	
BEANS	1. At 2-3 trifoliate leaf stage	1.5-2.5 pints/A
PEAS	2. At first bloom	
	3. At pod initiation	
CARROTS	1. 2-3 weeks after emergence	2-2.5 pints/A
ONIONS	2. At root enlargement	
BROCCOLI	1. At 4-6 true leaf stage	2-2.5 pints/A
CAULIFLOWER	2. 10-14 days later	
CABBAGE	3. At head initiation	
BRUSSEL SPROUTS		
SWEET CORN & POPCORN	1. At 2-6 leaf stage	2-2.5 pints/A
	2. At 20-30 in. growth stage	
	3. Just prior to tasselling	
CELERY	1. Within 7 days of transplanting or 2-3 weeks after emergence	2-2.5 pints/A
	2. 10-14 days later	
	3. 10-14 days later	
CUCUMBERS	1. At first 4 true leaves from seed	2-3 pints/A
	2. At first pre-bloom	
	3. 7-14 days later	
	4. Every 7-14 days until harvest	
	5. Within 48 hours of each picking	
EGGPLANTS	1. At 6-8 inch growth stage	2.5-3 pints/A
PEPPERS	2. At pre-bloom stage	
MELONS	3. At fruit set	
SQUASH	4. Within 48 hours of each picking	
LETTUCE	1. At 4 leaf stage	1.5-2 pints/A
PARSLEY	2. Followed by regular applications at 14 day intervals	
SPINACH		
OKRA	1. 2 weeks after emergence	2-2.5 pints/A
	2. Regular applications at 1 week intervals until the end of blooming	

CROP	APPLICATION STAGES	DOSAGE/APPLICATION
<u>VEGETABLES</u> (cont.)		
POTATOES	1. At tuber initiation (tuber set) or 3-5 weeks after emergence	2-2.5 pints/A
	2. 10-14 days later	
	3. At the start of blooming	
TOMATOES	1. At 6-8 inch growth stage	2.5-3 pints/A
	2. At pre-bloom stage	
	3. At fruit set	
	4. Approximately 14 days later	
	5. For fresh market varieties make extra applications within 48 hours of each picking	
<u>FRUIT:</u>		
APPLES	1. At green growth (tight cluster)	2.5-3 pints/A
	2. Pre-bloom/pink buds	
	3. Half-bloom	
	4. 3/4 petal fall	
	5. Young fruit	
	6. Every 14 days until harvest	
BANANAS PLANTAINS	1. Just prior to flower bud formation	2-3 pints/A
	Or 1. At start of new sucker growth 2. Every 4-8 weeks until harvest	
GRAPES	1. At start of spring growth	2-2.5 pints/A
	2. 18-24" growth	
	3. 50% bloom	
	4. Berry set/early shattering	
	5. 2-3 weeks later	
ORANGES	1. Pre-boom/early bloom	3-3.5 pints/A
	2. Full bloom-2/3 petal fall	
	3. With summer spray	
	4. With fall spray	
	5. 6-8 weeks prior to harvest for fresh market varieties	
PEACHES	1. Early bloom	2.5-3 pints/A
	2. Petal fall	
	3. Young fruit	

CROP	APPLICATION STAGES	DOSAGE/APPLICATION
<u>FRUIT (cont.)</u>		
STRAWBERRIES	<ol style="list-style-type: none"> 1. 10-14 days after emergence 2. At first bloom 3. Every 2-3 weeks through to picking 	1.5-2 pints/A
<u>FIELD CROPS:</u>		
ALFALFA	<ol style="list-style-type: none"> 1. Start in early spring, repeating 8-10 days after each cutting or heavy pasturing 	2-2.5 pints/A
COTTON	<ol style="list-style-type: none"> 1. At flower bud initiation 2. 7-10 days later 	2-2.5 pints/A
	<p>Or</p> <ol style="list-style-type: none"> 1. At pinhead square 2. 3 applications at 7-10 day intervals 	1.5-2.5 pints/A
CORN (FIELD)	<ol style="list-style-type: none"> 1. At 4-6 inch growth 2. At 10-14 inch growth 3. Just prior to tasselling 	2-2.5 pints/A
LUPINE	<ol style="list-style-type: none"> 1. 3-7 trifoliolate leaf stage 2. 2-3 weeks later 	2-2.5 pints/A
PEANUTS	<ol style="list-style-type: none"> 1. 3 weeks after emergence and three other applications every 1-2 weeks 	2-3 pints/A
RICE	<ol style="list-style-type: none"> 1. 3-5 leaf stage 2. At panicle initiation 	2-2.5 pints/A
		1-1.5 pints/A
SOYBEANS	<ol style="list-style-type: none"> 1. When buds appear 2. During full bloom 3. 1 or 2 other applications at 2-3 week intervals during the growing season 	2-2.5 pints/A
SUGAR BEETS	<ol style="list-style-type: none"> 1. Between 2-6 leaf stage 2. 7-10 days later (6-10 leaf stage) 3. 7-10 days later (10-14 leaf stage) 	2-2.5 pints/A
SORGHUM	<ol style="list-style-type: none"> 1. At 2-6 leaf stage 	2-2.5 pints/A

CROP	APPLICATION STAGES	DOSAGE/APPLICATION
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FIELD CROPS (cont.)

WHEAT		
Summer Crop	<ol style="list-style-type: none"> 1. At 4-8 inch stage 2. At flowering or seedhead development 	2-2.5 pints/A
Winter Crop	<ol style="list-style-type: none"> 1. In fall, at 3-6 inch stage provided plant growth has not entered dormancy period 2. As early as possible in the spring at beginning of new growth 3. Just prior to appearance of seed head 	2-2.5 pints/A

NON-FOOD CROPS:

TURF: STIM-TEK can be used in sod production, parks, golf courses, athletic fields, and home lawns. A total of 6-7.5 pints/A should be applied over the growing season, at the rate of 1.5-2 pints/A (1.5 oz. per 2,200 sq. ft.) per application. STIM-TEK Applications should begin at the initial growth stage and continue throughout the season at 2-4 week intervals. For seed production apply 1.5 pints/A just prior to spear formation. Additional applications can be made after periods of heavy use or high stress. Spray newly applied sod to help new root growth and root penetration of soil. A late season spray will help improve resistance to winter kill and frost damage.

DECIDUOUS, CONIFEROUS TREES AND SHRUBS: Make the first STIM-TEK application early in the season at the initiation of new growth, applying 3-5 pints/A (4 oz./2,200 sq.ft.). Follow with two sprays of 2.5 pints/A (2oz./2,200 sq.ft.) at 14-21 day intervals during the growing season. A late season spray will help improve resistance to winter kill and frost damage, although it should not be substituted for standard winter protection. A late season application will help Christmas trees retain their dark green color after cutting.

FIELD ORNAMENTALS: Start the season by applying 2 pints/A (1.6 oz/2,200 sq. ft.) at the early leaf stage. Continue with applications of 2-2.5 pints/A (2 oz./2,200 sq.ft.) in the regular spraying program. An additional application prior to lifting will help retain moisture and resist wilting.

GREENHOUSE ORNAMENTALS: Start by spraying the foliage to runoff point within 10 days of transplant or emergence at the rate of 1.5-2.5 pints/100 gal. water. Continue with regular applications every 2 weeks.

JOJOBA: Apply STIM-TEK after the initiation of new growth in Spring or Autumn, at the rate of 1.5-2.5 pints/A.

STORAGE AND DISPOSAL

GENERAL:

Do not contaminate potable water, food or feed by storage or disposal.

STORAGE:

Store in a cool place and out of direct sunlight. Keep from freezing. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL:

Improper disposal of unused pesticide, spray mixture or rinsate is a violation of Federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label directions must be disposed of according to Federal, state or local procedures. For guidance in proper disposal methods, contact your State Pesticide, Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER DISPOSAL:

Do not reuse empty container. Triple rinse (or equivalent), then offer for recycling, reconditioning or puncture and dispose of in a sanitary landfill, by incineration or by burning, if allowed by state and local authorities. If burned, stay out of the smoke.

WARRANTY STATEMENT:

Gro-Tek, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. Crop injury, ineffectiveness or other unintended consequences may result because of such factors such as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of Gro-Tek, Inc.. In no case shall Gro-Tek, Inc. be liable for consequential, special or indirect damages resulting from the use or handling of this product. Gro-Tek, Inc. makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

SUPPLEMENTAL LABELING FOR STIM-TEK CHEMIGATION

GENERAL

- 1) Apply STIM-TEK only through drip (trickle), sprinkler (including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set or hand move), flood (basin), furrow or border irrigation system(s). Do not apply STIM-TEK through any other type of irrigation system.
- 2) A pesticide supply tank is recommended. Dilute 1 part STIM-TEK with at least 5 parts water before adding to the supply tank. Continuous agitation of supply tank is recommended during application or injection into the chemigation system. For mixing instructions and compatibility information see general use on container label.
- 3) Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- 4) If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise.

SPECIAL INSTRUCTIONS FOR USE OF PUBLIC WATER SOURCES

- 1) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices from public water systems are in place.
- 2) Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 3) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

- 5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

SPECIAL INSTRUCTIONS FOR DRIP IRRIGATION (CHEMIGATION) SYSTEMS

- 1) The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking control to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

SPECIAL INSTRUCTIONS FOR FLOOD, FURROW AND BORDER IRRIGATION (CHEMIGATION) SYSTEMS

- 1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
- 2) Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
 - a. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
 - b. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

- c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.