Filtration

- What is the equivalent mesh size?
- How frequently will filter flushing be necessary, and how much water will be used per flush?
- How will the flush water be disposed of?
- Does this filter require prefiltration?
- How often must the filter be taken apart for cleaning or servicing?
- If this is a media (sand) filter, how easy is it to remove the sand? How often will the sand be replaced?
- How is this filter protected from corrosion on both the inside and outside?
- Does the pump provide enough water to flush the filter and operate the irrigation system simultaneously?
- Is a separate valve needed downstream of the filter to sustain backflush pressure?
- What are the initial adjustments necessary for the filter, and who will make them?
- Through what variation in flow rate can the filter be effective?
- Is a backup filter for safety required downstream? How will it be located?
- If a backflush flow adjustment is necessary, is it possible to view and sample the backflush water in order to make proper filter adjustments?
- What is the safe operating pressure of the filter?
- What is the minimum pressure required for good backflushing?
- How much pressure loss is there through the filter when clean, and when dirty?

Flow Rates and Pressures

- What is the minimum pressure anticipated at any emitter?
- What is the average emitter flow rate and pressure?
- How are pressures regulated throughout the system?
- Do pressure regulators require any adjustments?
- Do pressure regulators with pilot valves have large, external, easily-cleaned filters?
- What is the thickness of the tape/hose, and how much pressure can it practically withstand?

General Reduction of Plugging

- Is insect damage to emitters a problem in the area? How will the design minimize that problem?
- If this is a buried drip system, are the emitter outlets designed to minimize backsiphonage of soil?
- Are adequate flushouts provided throughout the whole PVC system to clean the pipes before the hoses/tapes are pressurized?
- Has the designer shown the results of a hydraulic analysis demonstrating there will be a hose/tape flushing velocity of at least 1.5 ft/sec at the downstream end of the hose – given the end connections and the upstream pressures?
- If used, can in-field filters and hose screen washers be easily cleaned?

Chemical Injection

- What type of chemical injection is needed to minimize emitter plugging?
- Has the water been tested for pH, iron, manganese, and sulfur bacteria problems?
- What equipment components can be damaged by injected chemicals?

General Agronomic

- What percentage of the soil volume will be wet?
- Are any chemical additives needed to minimize water runoff from the soil surface?