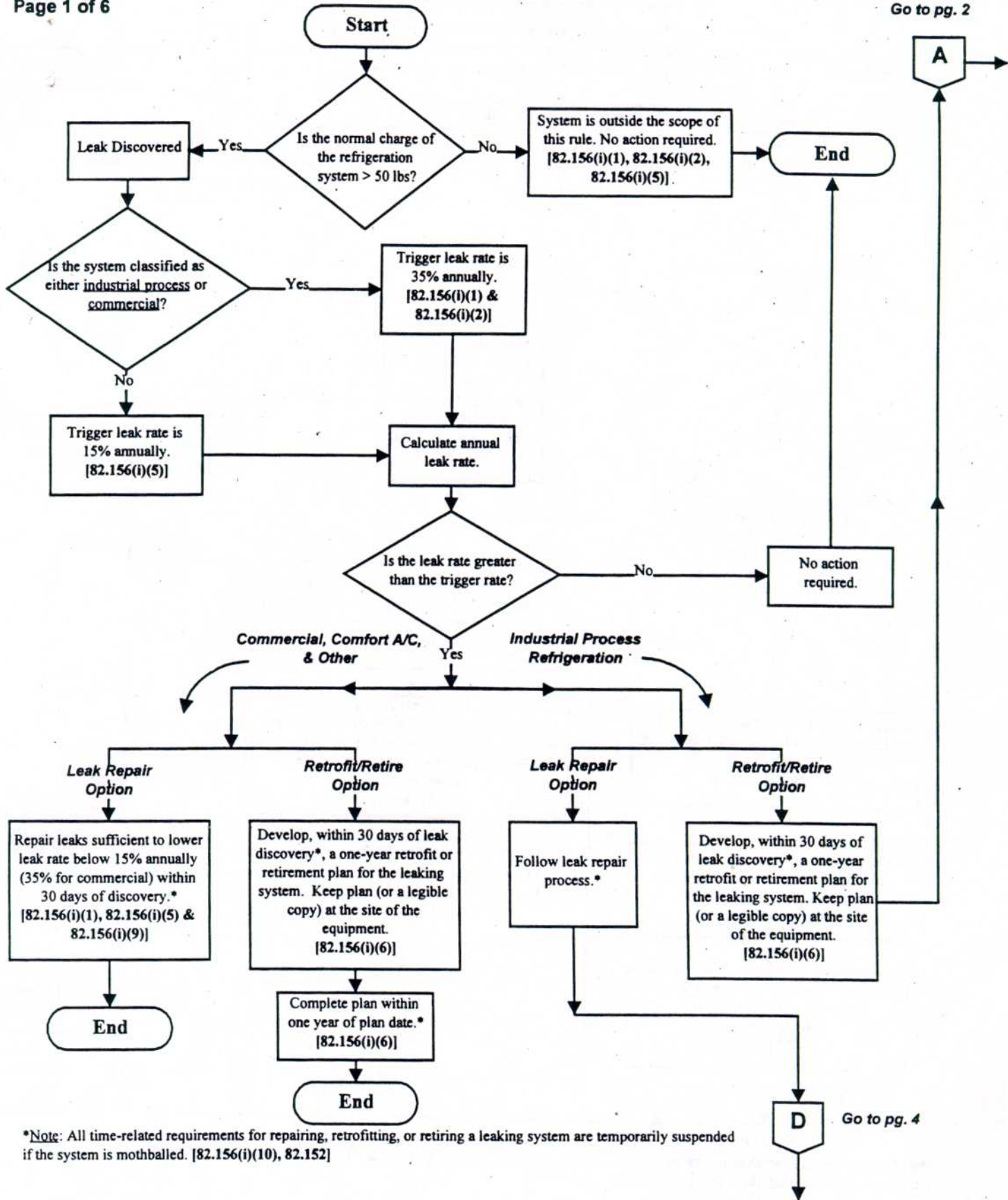
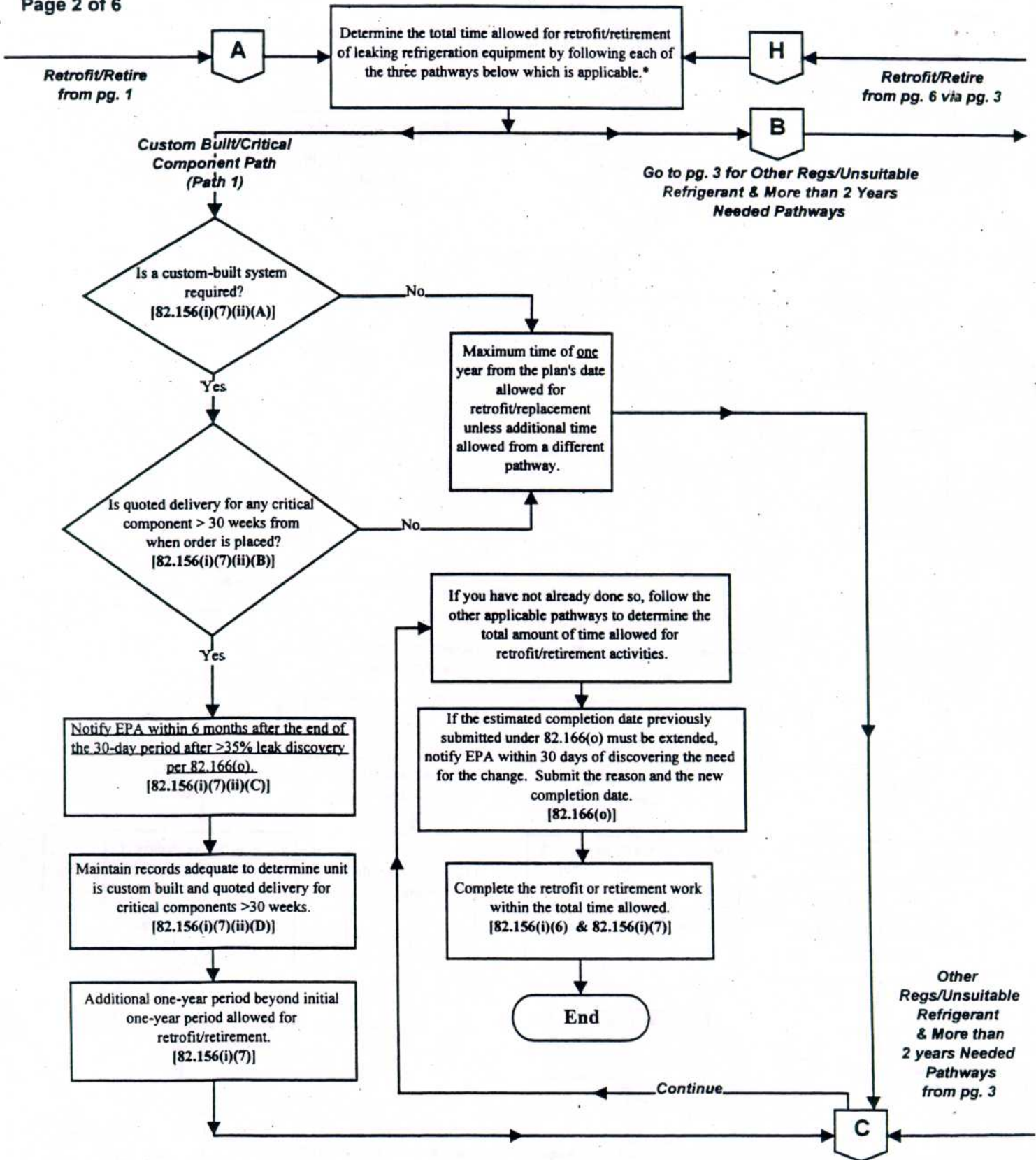


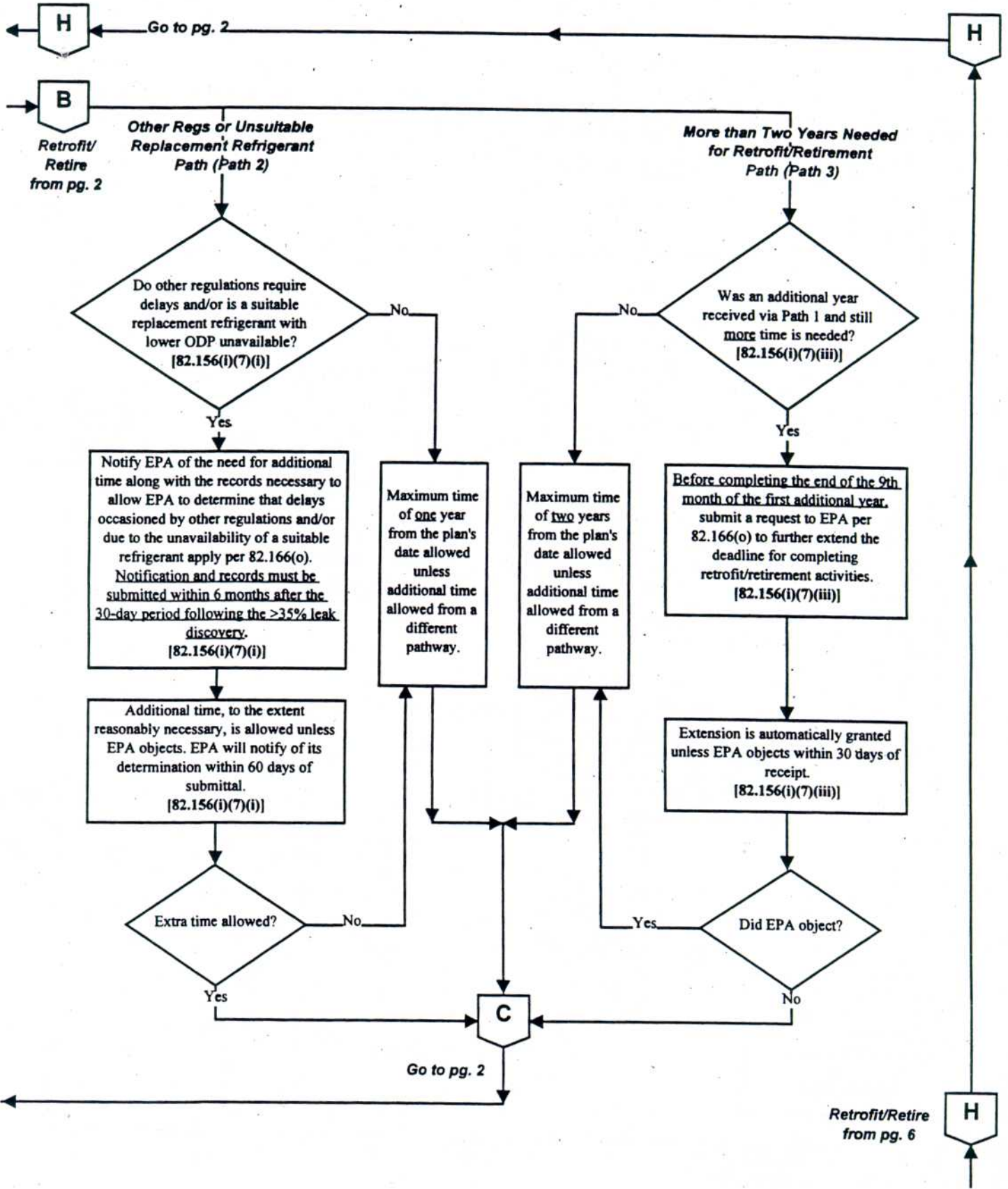
# Refrigerant Leak Repair Flow Chart



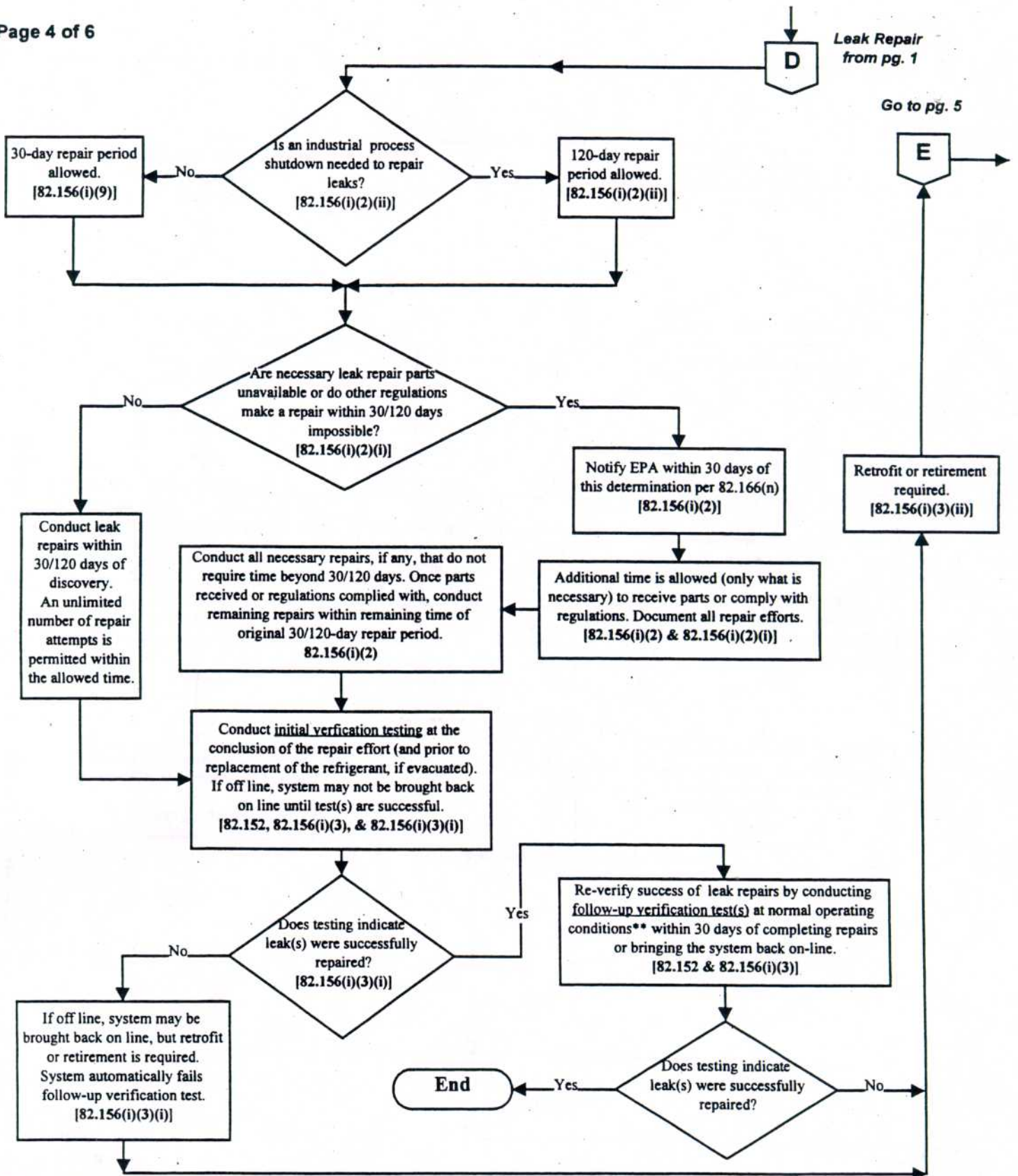
\*Note: All time-related requirements for repairing, retrofitting, or retiring a leaking system are temporarily suspended if the system is mothballed. [82.156(i)(10), 82.152]



\*Note: All time-related requirements for repairing, retrofitting, or retiring a leaking system are temporarily suspended if the system is mothballed. [82.156(i)(10), 82.152]



Retrofit/Retire from pg. 6



\*\* The follow-up verification test may be conducted prior to achieving normal operating conditions in some circumstances. See pg. E-3 of the guidance document for details.

**Leak(s) not successfully repaired during first repair effort.**  
(from pg. 4)



Within 30 days of failed follow-up verification test:  
1) Notify EPA that verification test was failed per 82.166(n); and,  
2) Develop a one-year retrofit/retirement plan. Keep plan (or a legible copy) at the site of the equipment.  
**Choose one or more of the options below. Two options, if successfully taken, may relieve the obligation to retrofit or retire.\*\*\***  
[82.156(i)(3)(ii), 82.156(i)(3)(iii) & 82.156(i)(6)]



Go to pg. 6 for 180-day Verification or Retrofit/Retirement Options

**Relief from Retrofit/Retirement: 2nd Repair Efforts Option**

Repair same leaks subject to first repair efforts within 30 days of the failed follow-up verification test (120 days if industrial process shutdown is required). An unlimited number of repair attempts is permitted within the allowed time.  
[82.156(i)(3)(iv)]

Conduct initial verification testing at the conclusion of the repair effort (and prior to replacement of the refrigerant, if evacuated.) If off line, system may not be brought back on line until test(s) are successful.  
[82.152, 82.156(i)(3), & 82.156(i)(3)(i)]

Does testing indicate leak(s) were successfully repaired?  
[82.156(i)(3)(i)]

If off line, system may be brought back on line. Retrofit or retirement is still required.  
[82.156(i)(3)(i)]

Re-verify success of leak repairs by conducting follow-up verification test(s) at normal operating conditions\*\* within 30 days of completing repairs or bringing the system back on-line.  
[82.152 & 82.156(i)(3)]

Does testing indicate leak(s) were successfully repaired?

Notify EPA within 30 days of successful verification per 82.166(n). Obligation to retrofit/retire is relieved.  
[82.156(i)(3)(iv)]

End

Retrofit or retirement is still required.  
[82.166(i)(3)(ii)]



Go to pg. 6

\*\* The follow-up verification test may be conducted prior to achieving normal operating conditions in some circumstances. See pg. E-3 of the guidance document for details.

**\*\*\* IMPORTANT NOTE:** The deadline for completing a retrofit or retirement and the deadline for requesting an extension if more than one year is needed to retrofit or retire are both based on the date of the failed verification test from the initial repair efforts. You should be aware of these deadlines and make appropriate provisions if you intend to attempt one or both of the options to be relieved of the obligation to retrofit or retire and are ultimately unsuccessful.

Follow the arrows  
around pg. 3 to  
pg. 2

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