

Automatic Sprinkler Plan Review

Make sure your people, property and business are properly protected.



Many businesses decide to provide sprinkler protection for their operations and enlist an automatic sprinkler contractor to design and install the system. However, design errors sometimes occur.

As a service to our members, Nationwide Loss Control Services can provide Automatic Sprinkler Plan Reviews (ASPR). The ASPR helps to ensure that the sprinkler system is designed and installed to applicable published standards. A Nationwide ASPR is not replacement of the review and approval by state and local authorities. It will however, ensure that the system installed will properly designed to protect your business.

What's the risk to your business?

Improperly designed sprinkler systems happen every day. To keep your business protected, and your project timeline on track, engage your Nationwide Loss Control associate early in the project to prevent delays and costly rework. We can partner with you, your general contractor, your automatic sprinkler contractor / designer, your operations staff and agency partner to help ensure the best outcome for your project.



What's needed to complete an ASPR?

Depending on the nature of the sprinkler project a site visit may be in order. This may not be necessary if the following information can be is available to the sprinkler plan reviewer:

- An accurate description of the operations being planned or conducted within the building. This occupancy may be habitational, institutional, manufacturing or storage of commodities. The occupancy defines the fire load presented by the materials in the sprinklered area and is used to determine the published protection necessary.
- A detailed drawing of the building, providing building ceiling heights, truss spacing and dimensions, HVAC equipment including plenums, mezzanines, etc.
- A detailed drawing or description of any storage or conveyor systems planned within the building. Detailed information on commodities being stored, manner of storage, storage heights, rack type, rack placement, solid or open shelves, aisle widths, etc.
- Detailed drawings of the sprinkler system, including any pumping system, as it will be installed. Most reviews involve only ceiling level designs. If in-rack sprinklers or other special designs are needed, additional drawings and information may be required.
- All system hydraulic calculations. These demonstrate the available water supply and the system ability to deliver water to the most remote sprinklers. They also calculate the margin of safety for the system — an important factor with fluctuating water supplies.
- The most recent fire pump annual test report for upgrades and additions to existing sprinkler system that are served by a private water tank fire pump or domestic supply booster pump. Additional details regarding water storage tanks may also be requested.
- Cut sheets, or technical data sheets, for sprinkler heads, pumps, valves and other components.

The sprinkler system drawings, hydraulic calculations and cut sheets are provided by your sprinkler contractor in a standard Automatic Sprinkler Plan Review “packet” which is also provided to the local authorities for approval.

How does the ASPR process work?

Depending on the nature of the project, the ASPR process can take many different paths. The request may require a single, virtual platform meeting, or it may involve a site visit. Occasionally it requires several meetings to collect information, resolve water supply concerns, design changes and final acceptance.

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How long does the ASPR process take?

The initial sprinkler plan review is completed shortly after all the necessary information is provided. The resolution of issues discovered during the review may necessitate design changes, water supply testing or other action. Resolution of issues may take days or months. On average, the review processes typically take 60 days from initial request to acceptance.

In all cases, Nationwide Loss Control remains your trusted technical resource to help you successfully complete the sprinkler system project, protect your property, your business, and your people.

Contact Nationwide Loss Control Services to discuss Automatic Sprinkler Plan Review and how it can help protect your business.



Providing solutions
to help our members
manage risk.®

For your risk management
and safety needs, contact
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