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Photogrammetric Approach to Monitor the Radiation Safety System at APS*

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One of the many responsibilities of the Survey and Alignment team at the Advanced Photon Source (APS) is the periodic monitoring of the positional stability of the Radiation Safety System (RSS). The RSS for all operational experiment x-ray beamlines consist of approximately one thousand RSS components. Access to these components is limited to a brief maintenance period, and the use of traditional survey techniques and optical tooling are very time consuming. The APS Survey and Alignment team is currently testing the suitability of close range industrial photogrammetry for this application. The automated photogrammetric system, testing procedures, and results of these tests are discussed in this poster.

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