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Development of the neutron electric dipole moment experiment at the SNS

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The nEDM Collaboration is preparing an experiment to run at the Spallation Neutron Source (SNS) to search for the neutron electric dipole moment (EDM) experiment with a sensitivity of $<10^{-27} \text{ e} \cdot \text{cm}$ based on the scheme of Golub and Lamoreaux. The collaboration has been pursuing a R&D program to establish the technical feasibility of the design. Many results have been obtained from independent experiments that demonstrate the EDM experiment should work. The data from a number of these preparatory measurements will be presented and discussed in terms of their importance to the final design. The engineering of the project is now ready to produce shop drawings, so a comprehensive picture of the apparatus can be presented.