

9756 **Appendix B. How the National Weather Service**
9757 **Prioritizes the Development of Improved Hydrologic**
9758 **Forecasts**

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9775 (Adapted from Mary Mulluski's HSD Requirements Process: How to Solicit, Collect,
9776 Refine, and Integrate Formal Ideas into Funded Projects, NWS internal presentation,
9777 2008).

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9779 There are three sources of requirements towards the development of improved hydrologic
9780 forecasts at the National Weather Service: internal, external requirements for forecast
9781 improvements, and web-page information improvement. All improvements are
9782 coordinated by the National Weather Service Hydrologic Services Division (HSD).

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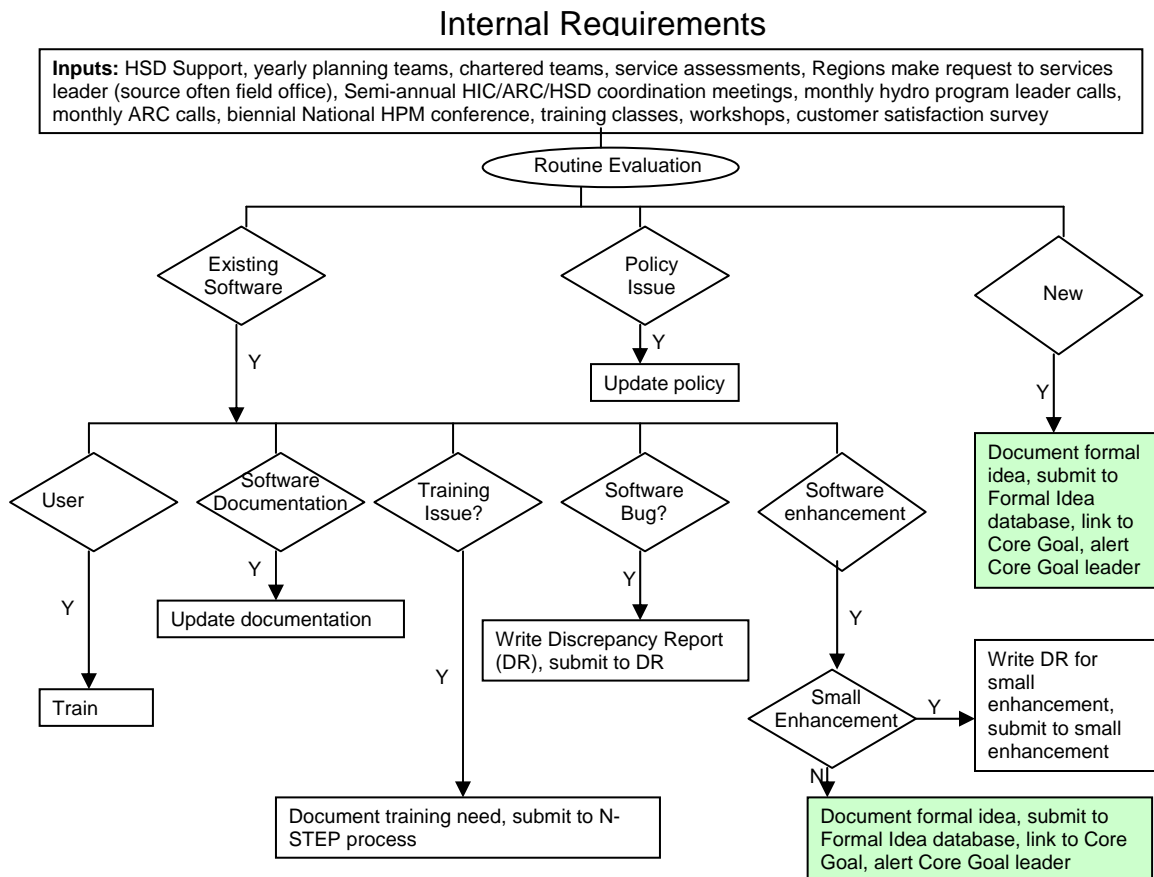
9784 The internal hydrologic forecast improvement requirements at the National Weather
9785 Service are a result of one of more of these sources:

- 9786 • HSD routine support
- 9787 • Proposed research and research-to-operations projects by annual planning teams,
9788 with the participation of HSD, the Office of Hydrologic Development (OHD) ,
9789 River Forecast Center and Weather Forecast Offices employees
- 9790 • Teams chartered to address specific topics
- 9791 • The result of service assessments
- 9792 • Solicitation by the NWS Regions of improved forecast requirements to services
9793 leaders
- 9794 • Semi-annual Hydrologists-in-charge, AHPS Review Committee (ARC), and HSD
9795 Chiefs coordination meetings
- 9796 • Monthly hydro program leader calls
- 9797 • Monthly ARC calls

- 9798 • Biennial National Hydrologic Program Manager’s Conference (HPM)
- 9799 • Training classes, workshops, and customer satisfaction surveys

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9801 A flow diagram of the internal hydrologic forecast process is shown in Figure B.1.



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9803 **Figure B.1** Hydrologic Forecast Improvement: Internal Requirements Process

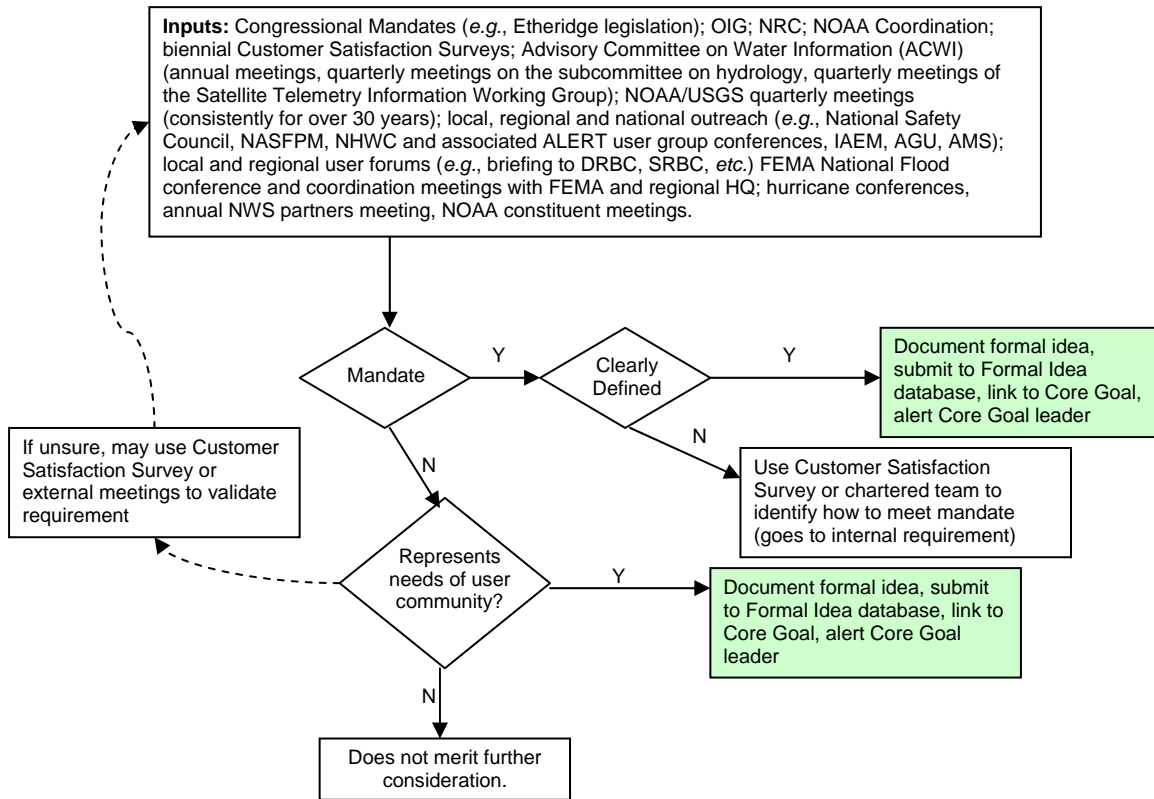
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9805 The external requirements for hydrologic forecast improvements are the results of:

- 9806 • Congressional mandates
- 9807 • Office of Inspector General requirements
- 9808 • National Research Council recommendations
- 9809 • NOAA Coordination

- 9810 • Biennial customer satisfaction surveys
- 9811 • Annual meetings, quarterly meetings on the subcommittee on hydrology,
- 9812 quarterly meetings of the Satellite Telemetry Information Working Group of the
- 9813 Advisory Committee on Water Information (ACWI)
- 9814 • NOAA/USGS quarterly meetings (consistently for over 30 years);
- 9815 • Local, regional and national outreach such as the National Safety Council,
- 9816 National Association of Flood Plain Managers, (NASFPM), National Hydrologic
- 9817 Warning Council (NHWC) and associated ALERT user group conferences,
- 9818 International Association of Emergency Managers, (IAEM), American
- 9819 Geophysical Union (AGU), American Meteorological Society (AMS);
- 9820 • Local and regional user forums (*e.g.*, briefing to DRBC, SRBC, *etc.*)
- 9821 • FEMA National Flood conference and coordination meetings with FEMA and
- 9822 regional HQ
- 9823 • Hurricane conferences, annual NWS partners meeting, NOAA constituent
- 9824 meetings
- 9825 A flow diagram of the external hydrologic forecast process is shown in Figure B.2
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External Requirements Process



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9828 **Figure B.2** Hydrologic Forecast Improvement: External Requirements Process

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