

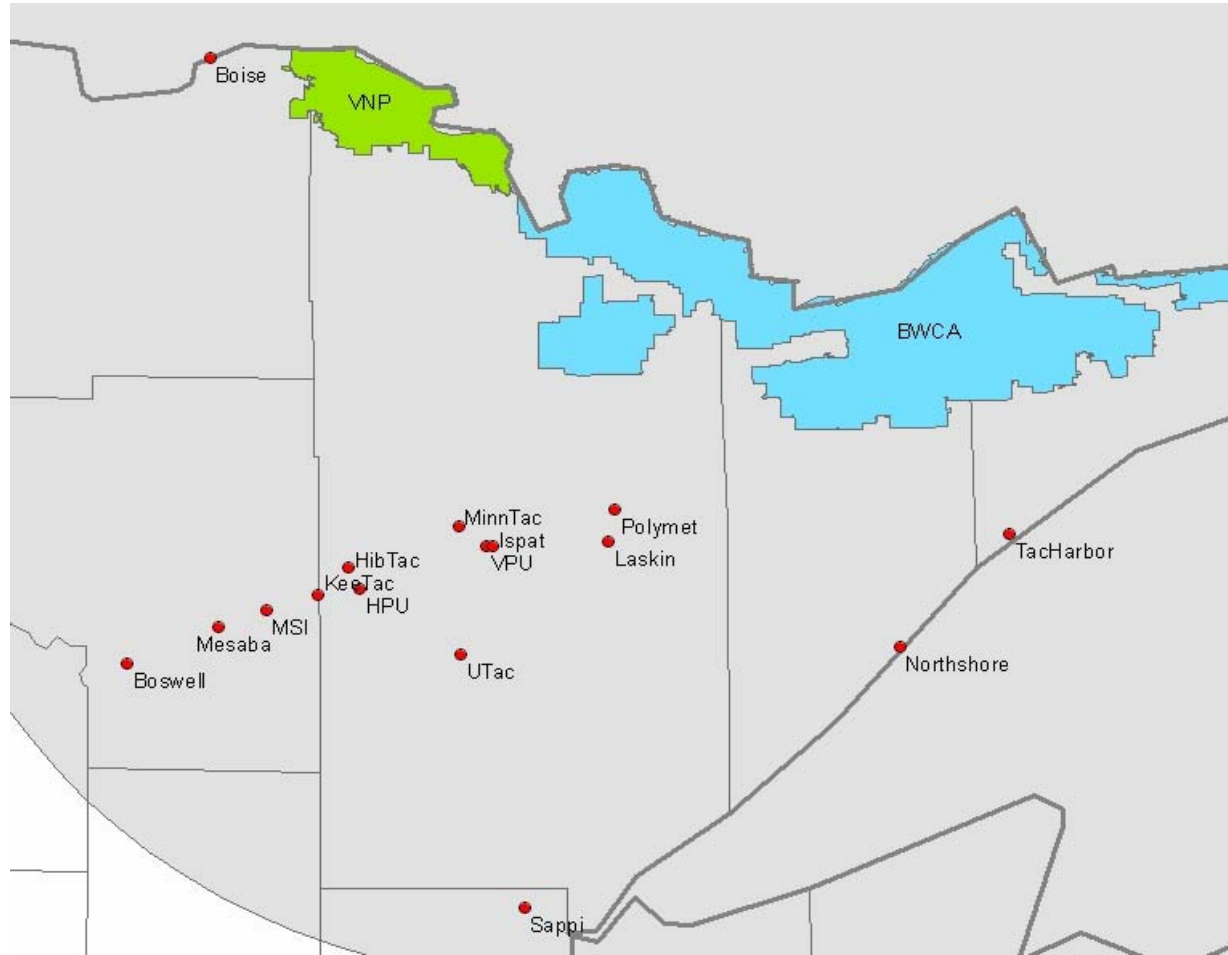
# Treatment of New Sources During Permitting

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**Minnesota Pollution  
Control Agency**

# Existing and New Sources



# Emissions Summary

	SO <sub>2</sub> Emissions (tons per year)	NO <sub>x</sub> Emissions (tons per year)
Existing NE Taconite Plants (2002 Emissions)	8,911	36,111
Existing NE Power Plants (2002 Emissions)	26,950	20,366
Proposed NE MN Projects (Projected Emissions)	2361	5674
Total MN Point Sources (2002 Emissions)	130,489	152,339



# Emissions from Proposed Projects

<b>Proposed Facilities in Northeast Minnesota</b>	<b>SO<sub>2</sub> Potential Emissions (tons/year)</b>	<b>NO<sub>x</sub> Potential Emissions (tons/year)</b>
Minnesota Steel Industries	539	1601
Excelsior/Mesaba Energy (Phase I & II)	1390	2872
PolyMet	15	247
<b>Total</b>	<b>1944</b>	<b>4720</b>
Mesabi Nugget	417	954
<b>New Total</b>	<b>2361</b>	<b>5674</b>



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# Mesabi Nugget Example

- Summer 2005 permit issued
- Located near Hoyt Lakes (former LTV site)
- BACT – no add on controls for NOX for the Rotary Hearth furnace
- Modeled adverse impacts on BWCA
- No clear guidance on how to mitigate adverse impacts



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# Mesabi Nugget (Continued)

- Visibility Mitigation Plan added to permit requiring offsets (negotiated with National Forest Service)
  - Acquisition and retirement of Acid Rain allowances, or
  - Reduce emissions at facility or
  - Propose another mitigation plan, go through major modification to incorporate into permit



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# Proposed Minnesota Steel Project

- Taconite, direct reduced iron, steel mill
- Located near Nashwauk
- Brownfield site – formerly Butler Taconite
- State and Federal Environmental Impact Statement
- Scoping process completed
- Draft EIS on notice in February
- Permits cannot be issued until after adequacy decision



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# Proposed Minnesota Steel Project (continued)

- MN Steel proposing “innovative control technology” – LoTox – for waste gas stack on the indurating furnace
- Federal guidance prescribing modeling assumptions is in the process of being modified.
- 2000 Guidance still being applied
- New Guidance still draft and has not been formally proposed or finalized



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# Challenges

- Which guidance should be used?
- If adverse impact is identified, no clear guidance on mitigation.
- Should only emissions causing adverse impact be mitigated?
- Should all facility emissions be mitigated?
- If offsets are used, what should offset ratio be?



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# Next Steps

- Continue discussions with Federal Land Managers and Company to work towards resolution.
- Work towards clearer guidance for mitigation plans if future projects model adverse impacts.
- Hope LoTox works – this will provide possible long term strategy for future reductions at existing taconite. Mercury reductions too.

