**For conducting prescribed fire when the clearing index is above 500, follow the Utah Smoke Management Plan.** [HB92](https://le.utah.gov/~2020/bills/static/HB0092.html) has three avenues for conducting prescribed fire when the clearing index is less than 500. This document contains implementation guidance for those avenues. Everything in red text is direct from HB92.

**(3b), (5b)** “**When burning in wildland\* areas or when burning for resource management purposes in areas not defined as wildland:** The land manager will demonstrate to the director that the planned prescribed burning or pile burning will:

1. Not cause an exceedance of a national ambient air quality standard outside the wildland area
2. Minimize the long range transport of smoke; and
3. Protect visibility in mandatory federal class 1 areas

\* ‘"Wildland" means an area in which development is essentially nonexistent other than the existence of a pipeline, power line, road, railroad, or other transportation or conveyance facility or one or more structures that are widely scattered.’

To make a demonstration, land managers should:

1. *One week ahead of time*: Ensure the burn project is registered according to the [smoke management plan](https://smokemgt.utah.gov/static/pdf/UtahSMP2021.pdf) (SMP)
2. *Ideally one week ahead of time:* Notify the coordinator via email of the intent to make a demonstration
3. *On the business day prior to the scheduled ignition*, submit screenshots or links including:
   1. A description of what is to be burned on which days
   2. A table including forecast clearing index, and nearest receptors, PM2.5 monitoring station, nonattainment area, and class 1 area
   3. Forecasted air quality for the area for the next day(s) <https://gispub.epa.gov/airnow/> & <https://air.utah.gov/currentconditions.php?id=p2>
   4. Emissions and dispersion modeling, for example [BlueSky Playground/Hysplit](https://tools.airfire.org/playground/v3.5/emissionsinputs.php), [PBPiedmont](https://piedmont.dri.edu/), [Piled Fuels Emissions Calculator](https://depts.washington.edu/nwfire/piles/)
   5. Predicted wind at sufficient resolution in the local area to depict both burn location and receptors, for example [Windy](https://www.windy.com/?39.202,-111.984,7) / WindNinja
4. Smoke coordinator will communicate decision from DAQ
5. *On burn day:* Takehourly photographs while burning and hourly smoke observations, keep a record of any complaints received
6. *The day after each day of ignitions* Submit the usual emissions report required in the SMP

**(4b)** “**When burning to reduce hazardous fuels for public safety in areas not defined as** **wildland:** to maximize the opportunities for prescribed burning or pile burning the director approves a prescribed burning or pile burning after the land manager:

1. Provides a demonstration that includes an assessment of the smoke impact to local receptors;
2. Implements measures to notify residents; and
3. Minimizes residents exposure to smoke.”

To make a demonstration, land managers should:

1. *One week ahead of time*: Ensure the burn project is registered according to the [smoke management plan](https://smokemgt.utah.gov/static/pdf/UtahSMP2021.pdf) (SMP)
2. *Ideally one week ahead of time:* Notify the coordinator via email of the intent to make a demonstration
   1. ***Include the public notification and smoke management elements of the burn plan***
3. *On the business day prior to the scheduled ignition*, submit screenshots or links including:
   1. A description of what is to be burned on which days
   2. A table including forecast clearing index, and nearest receptors, PM2.5 monitoring station, nonattainment area, and class 1 area
   3. Forecasted air quality for the area for the next day(s) <https://gispub.epa.gov/airnow/> & <https://air.utah.gov/currentconditions.php?id=p2>
   4. Emissions and dispersion modeling, for example [BlueSky Playground/Hysplit](https://tools.airfire.org/playground/v3.5/emissionsinputs.php), [PBPiedmont](https://piedmont.dri.edu/), [Piled Fuels Emissions Calculator](https://depts.washington.edu/nwfire/piles/)
   5. Predicted wind at sufficient resolution in the local area to depict both burn location and receptors, for example [Windy](https://www.windy.com/?39.202,-111.984,7) / WindNinja
4. Smoke coordinator will communicate decision from DAQ
5. *On burn day:* Takehourly photographs while burning and hourly smoke observations, keep a record of any complaints received
6. *The day after each day of ignitions* Submit the usual emissions report required in the SMP

HB92 provides an avenue for conducting sub-500 clearing index burning even when it is predicted that the project could cause an air quality exceedance. Recognizing that this could result in negative regulatory actions, UDAQ has asked that in practice this would be for extraordinary circumstances and should not be standard if a burn can be managed otherwise.

**(3c) “When burning in wildland areas,** **and the prescribed burn may cause an exceedance of a national ambient air quality standard outside the wildland area:** The director approves a prescribed burn after the land manager demonstrates to the director that the prescribed burn fuel conditions are optimal to:

1. protect safety of the public and fire staff;
2. minimize the risk of catastrophic fire;
3. achieve necessary watershed and ecological conditions; and
4. establish, restore, or maintain a sustainable and resilient wildland ecosystem or to preserve endangered or threatened species through a program of prescribed burning or pile burning.”

To make a demonstration, land managers should:

1. *One week ahead of time*: Have an approved burn project and pre-burn filed according to the [smoke management plan](https://smokemgt.utah.gov/static/pdf/SMP011606_Final.pdf) (SMP)
2. *One week ahead of time:* Notify the smoke coordinator, who will pass on to the DAQ director the intention to make a demonstration
   1. ***Include the public notification and smoke management elements of the burn plan***
   2. ***Explain the necessity of conducting the burn at this time, addressing (3c) i through iv above***
3. *On the business day prior to the scheduled ignition*, submit screenshots or links including:
   1. A description of what is to be burned on which days
   2. A table including forecast clearing index, and nearest receptors, PM2.5 monitoring station, nonattainment area, and class 1 area
   3. Forecasted air quality for the area for the next day(s) <https://gispub.epa.gov/airnow/> & <https://air.utah.gov/currentconditions.php?id=p2>
   4. Emissions and dispersion modeling, for example [BlueSky Playground/Hysplit](https://tools.airfire.org/playground/v3.5/emissionsinputs.php), [PBPiedmont](https://piedmont.dri.edu/), [Piled Fuels Emissions Calculator](https://depts.washington.edu/nwfire/piles/)
   5. Predicted wind at sufficient resolution in the local area to depict both burn location and receptors, for example [Windy](https://www.windy.com/?39.202,-111.984,7) / WindNinja
4. Smoke coordinator will communicate decision from DAQ
5. *On burn day:* Takehourly photographs while burning and hourly smoke observations, keep a record of any complaints received
6. *The day after each day of ignitions* Submit the usual emissions report required in the SMP