NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR POLLUTION CONTROL

ENVIRONMENTAL EVALUATION (MODELING)
CHECKLIST

Facility Name & Permit No. ___

Type of Permit Application ___

Facility Location _____ **Date Completed** _____ **Modeler Name/Firm** _

		✓
Modeling Protocol Submission (Optional but Recommended)		✓
1	Applicant submitted proposed modeling protocol to NDEP-BAPC for agency review/comment **prior** to any modeling?	
Environmental Evaluation Data to be Prepared by the Applicant		✓
2	Detailed facility plot plan drawn to appropriate scale, which clearly shows all fencelines/property-lines, topography, emission units, stacks, storage tanks, facility buildings & roof heights, public roads, neighboring properties, etc.	
3	Emissions inventory spreadsheet of all regulated pollutants (PM, PM_{10}, SO_2, NO_x, CO, VOCs, Pb, HAPs, and H_2S) emitted from all emission units and insignificant activities and submitted in hardcopy and electronic formats?	
4	Spreadsheet uses appropriate EPA AP-42 emission factors, manufacturer's data, and/or facility stack test results?	
5	Applicant researched/considered appropriate ambient background values for all pollutants modeled?	
6	Facility's modeling receptor grids are appropriately spaced and reflect surrounding terrain (e.g., flat or complex)?	
7	Complex terrain (terrain > stack height) modeling runs incorporate appropriate terrain height data (e.g., USGS)?	
8	Effects of nearby facilities (co-located facilities, facilities sharing a common fenceline/property-line) considered?	
Dispersion Modeling Runs		✓
9	Uses an EPA-approved/recommended dispersion model appropriate for the task (e.g., ISCST3)?	
10	NDEP-BAPC agrees with use of the selected meteorological data set?	
11	Modeled all criteria pollutants at the requested permit emission limits (including all insignificant activity emissions)?	
12	Highest impact for each pollutant/averaging time + background shows attainment with all NV ambient standards?	
13	Modeled secondary pollutants such as ozone - O_3 (e.g., Scheffe screening analysis or ISCST3)?	
14	Model incorporates appropriate operating schedule (e.g., 24 hrs/day or a lesser operating schedule such as 8-5)?	
15	Model runs apply appropriate building downwash effects for all affected stack sources (e.g., BPIP)?	
16	Model runs distinguish correctly between stack (point), process fugitive (volume), and area source emissions? sources?	
Final Modeling Report (included as part of application submittal)		✓
17	Modeling report includes appropriate summary narrative (e.g., writeup) , data tables, plot plan, maps, figures, etc?	
18	Data provided is illustrative and clearly demonstrates compliance with all appropriate ambient standards?	
19	Modeling report includes appropriate hardcopy printouts of all plots (graphs) and model run outputs?	
20	Modeling report includes electronic (diskette or CD-ROM) input/output files and meteorology data set?	