COUNTY OF SONOMA - JOB DEMANDS ANALYSIS

JOB CLASSIFICATION: Air Quality Engineer, Assistant Air Quality Engineer DEPARTMENT: Northern Sonoma County Air Pollution Control District

PHYSICAL DEMAND STRENGTH RATING: Medium

DATE COMPLETED: March 2022
DIVISION: Permits and Compliance

INSTRUCTIONS TO MEDICAL PROVIDERS COMPLETING THIS FORM:

Please use the "Medical Provider Use Only" columns to the right of each section and the "Medical Provider's Comments & Signature" Section on the signature page to provide work restrictions by indicating whether there is some portion of each function that the employee can perform; designating whether each restriction is temporary or permanent; and, if the restriction is temporary, stipulating the expected duration of work restriction(s). To finalize the form, please provide the name of the employee evaluated and additional comments, as appropriate, then sign and date where indicated.

FREQUENCY RATING:

Frequency	Percentage of time per shift	Repetition (# times per shift)	8 Hr Shift	9 Hr Shift	10 Hr Shift	12 Hr Shift
Never/Not Required (N)	n/a	n/a	n/a	n/a	n/a	n/a
Occasionally (O)	1 - 33%	1 – 100	0 - 2.5	0 - 3	0 - 3.5	0 – 4
Frequently (F)	34 - 66%	100 – 500	2.5 - 5.5	3 - 6	3.5 - 7	4-8
Continuously (C)	67 - 100%	500+	5.5 – 8	6 - 9	7 - 10	8 - 12

PART 1 - JOB DUTIES/FUNCTIONS:

A. Job Duty/Function	B. Job	C. Freq	D. Equipment or	E. Specialized	F. Essential or	Medical Provider Use Only: For
	Duty	Rating	tools used to	Expertise, License,	Non- Essential	each job duty/function, indicate
	#		perform (Describe)	Certification Required?		in this column "Can Perform", is
				(Describe)		"Temporarily Restricted" from
						performing, or is "Permanently
						Restricted" from performing.
While performing the following duties, employees in this position				CA Driver's License		
work in a typical office setting, sitting for long periods of time and						
routinely using office equipment such as computers, phones,						
photocopiers, fax machines, etc.; and may also telework; and						
work in the field, working outdoors in all types of terrain,						
vegetation, and weather conditions, performing duties in both						
daylight and dark/dim conditions.						
Performs emergency and ad-hoc assessments of permitted and	1	F	Computer, phone,	CA Driver's License	E	
non-permitted air pollution sources after natural disasters;			vehicle			
pursuant to public nuisance complaints, including open burning						
events; and other air pollution activities as observed in the field						
to identify and document potential public health safety concerns.						
May respond outside of office hours, including evenings,						
weekends, and holidays, during response and recovery phases of						
emergency and public nuisance situations.						

,		-	D. Equipment or	-		Medical Provider Use Only: For
	Duty	_	tools used to	Expertise, License,	Non- Essential	
	#		perform (Describe)	Certification Required?		in this column "Can Perform", is
				(Describe)		"Temporarily Restricted" from
						performing, or is "Permanently Restricted" from performing.
On a valational ask adula, an area on both constant days, and water	2		Camanutan mbana		Г	Restricted from performing.
On a rotational schedule, on one or both weekend days; evaluates		0	Computer, phone		E	
the burn day status; considering local and regional meteorological conditions; coordinates with CAL FIRE and local fire agencies as						
necessary; follows state and district regulations and procedures;						
exercises good judgment in determining the burn day status; and						
in a timely manner develops a brief voicemail recording for the						
public to learn burn day status.						
Uses good judgment and discretion while directing, performing,	3	0	Computer, phone		E	
or assisting the District team with engineering, the permit)		Computer, phone			
process, calculating air pollution emissions, modeling and risk						
assessments, and compliance inspections. Reads and						
understands specifications of air pollution control technologies,						
chemical and mechanical processes of permitted facilities;						
reviews and makes decisions on proposed permit projects;						
ensures consistent interpretation of and compliance with federal,						
state, and District air pollution regulations, and policies.						
Working under the direction of the APCO, provides direction and	4	F	Computer, phone		E	
training both orally and in writing, to District team members to	•				_	
ensure goals are met; plans, organizes, and assigns work;						
evaluates, reviews, and monitors the activity of staff, both						
formally and informally, in writing and in person; participates in						
performance evaluations, hiring interviews and decisions; utilizes						
appropriate discretion and assures compliance with District and						
County policy and federal and state laws in matters of employee						
relations, EEO, and ADA.						
Working under the direction of the APCO, independently,	5	F	Computer, phone		E	
analyzes District business and operational strategies; plans,						
organizes, and directs new initiatives; gathers and analyzes data;						
establishes and monitors priorities; researches, evaluates, and						
recommends potential solutions, both orally and in writing;						
recognizes the direction of Board of Directors in implementing						
new policies and goals; ensures program activities and budget are						
conducted in accordance with District policies and procedures,						
and with applicable federal and state laws.						

A. Job Duty/Function		Rating	D. Equipment or tools used to perform (Describe)	E. Specialized Expertise, License, Certification Required? (Describe)		Medical Provider Use Only: For each job duty/function, indicate in this column "Can Perform", is "Temporarily Restricted" from performing, or is "Permanently
						Restricted" from performing.
Communicates with permit applicants and permit holders, fellow	6	F	Computer, phone		E	
regulatory staff/agencies, and general public, in person, by phone	,					
and in written format, potentially in adversarial situations.						
Interprets and explains state and District air pollution control						
regulations, policies, and procedures. Makes recommendations						
and gives instructions for deficiencies and violations; responds to						
complex questions related air pollution control equipment and						
industrial processes, especially regarding geothermal processes.						
Prepares and assists with a variety of written reports, policies,	7	0	Computer, phone		E	
and other documents; gathers and analyzes data; researches, and						
interprets air pollution control laws and regulations; assists with						
District data collection and reporting requirements for District,						
state, and federal programs. Ensures the accuracy of reports and						
the timeliness of completion; assists and advises on preparation						
of division budget; focuses on key priorities while not losing sight						
of any tasks necessary to assigned projects.						
Represents the District and speaks before public bodies,	8	0	Computer, phone		E	
organizations, committees, and the general public on matters						
pertaining to District programs, projects, permitting, open						
burning, and activities. Works in collaboration with other agencies	;					
on public and private projects and policy initiatives; conducts						
outreach to stakeholders.						
Conducts inspections at a variety of industrial sites, including	9	F	Vehicle, clipboard,	CA Driver's License	E	
construction, winery, agricultural, geothermal, wood and milling			PPE			
operations, gas stations, and open burning events; observes						
emissions testing and operations to evaluate permit compliance.						
Drives District vehicle/pick-up truck to offsite locations, including						
rugged, remote, and off-road locations; inspects vehicle and						
reports any issues or damage; may drive up to one hundred miles						
per day; and makeup to five stops per day.						
Occasionally provides backup support for District monitoring	10	0	Vehicle, ladder	CA Driver's license	E	
activities that may include the maintenance, repair, and operation				Ladder safety training		
of air monitoring equipment; climbing a ladder one-story to						
access rooftop monitoring sites; loading and unloading a ladder						
from the District pickup truck. May provide quarterly QA/QC						
review of monitoring data prepared for submittal to CARB and						
EPA.						

A. Job Duty/Function	B. Job	C. Freq	D. Equipment or	E. Specialized	F. Essential or	Medical Provider Use Only: For
"	Duty	Rating	tools used to	Expertise, License,	Non- Essential	each job duty/function, indicate
	#		perform (Describe)	Certification Required?		in this column "Can Perform", is
				(Describe)		"Temporarily Restricted" from
						performing, or is "Permanently
						Restricted" from performing.
Actively participates in District advisory groups and teams, such	11	0	Computer, phone		E	
as: APCO and District team meetings; trade association and						
professional groups, safety, process improvement, new program						
implementation/initiatives; provides input and makes						
recommendations; responds to requests for information;						
provides information to co-workers.						
Implement necessary and required PPE and safety protocols when	12	F	Industrial site PPE	Site-specific onsite	E	
visiting or conducting inspections of industrial and commercial				safety training as		
facilities and when present during open burn events.				required.		
Participates in continuous training to maintain and enhance the	13	0	Computer	VE certification.	Е	
knowledge and skills required for this position. May be required						
to obtain and maintain VE (visible emissions) certification to						
perform visual opacity measurements.						

PART 2: PHYSICAL DEMANDS

	Examples of	FREQUENCY RATING	MEDICAL		USE ONLY:
Activity	Duties/Functions	Never, Occasional;	Can	Temporarily	Permanently
1 Sitting	Requiring Activity 1-13	Frequent, or Constant F	Perform	Restricted	Restricted
2 Walking	1-13	0			
3 Running	N/A	N			
4 Standing	1-13	0			
5 Bending-Neck	1-13	F			
6 Bending-Waist	1-13	0			
7 Squatting	1,9,10	0			
8 Climbing	1,9,10	0			
9 Kneeling	1,9,10	0			
10 Crawling	N/A	N			
11 Twisting (neck)	1-13	F			
12 Twisting (waist)	1-13	0			
13 Repetitive Hand Use	1-8	0			
14 Simple Grasping-Right Hand	1-13	F			
15 Simple Grasping-Left Hand	1-13	F			
16 Power Grasping-Right Hand	N/A	N			
17 Power Grasping-Left Hand	N/A	N			
18 Fine Manipulation-Right Hand	1-13	0			
19 Fine Manipulation-Left Hand	1-13	0			
20 Pushing and Pulling (right hand)	1-13	0			
21 Pushing and Pulling (left hand)	1-13	0			
22 Reaching (above shoulder level)	1-13	0			
23 Reaching (below shoulder level)	1-13	0			
24 Lifting up to 10 lbs.	1-13	F			
25 Lifting-11-25 lbs.	1-13	0			
26 Lifting-26-50 lbs.	10	0			
27 Lifting 51-75 lbs.	N/A	N			
28 Lifting 76-100 lbs.	N/A	N			
29 Lifting 100 + lbs.	N/A	N			
30 Carrying 0-10 lbs.	1-13	F			
31 Carrying 11-25 lbs.	1-13	0			
32 Carrying 26-50 lbs.	10	0			
33 Carrying 51-75 lbs.	N/A	N			
34 Carrying 76-100 lbs.	N/A	N			

PART 3: SENSORY REQUIREMENTS

	Examples of	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Duties/Functions	Never, Occasional;	_	_	Permanently
Activity	Requiring Activity	Frequent, or Constant			Restricted
1 Functional vision, normal or corrected	1-13	С			
2 Functional color vision, normal or corrected	9,10	0			
3 Functional night vision, normal or corrected	1,2,9,10	0			
4 Functional hearing, normal or corrected	1-13	0			
5 A sense of smell or taste	1,2,9,10	0			

PART 4: COMPREHENSION LEVEL

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
1 Follow Oral Instructions	F			
2 Follow Written Instructions	F			
3 Required to sustain concentration	0			

PART 5: NATURE OF TASKS

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
1 Follow set procedures	F			
2 Organize own work	F			
3 Able to ask questions or request assistance when needed	F			
4 Required to make decisions independently	F			
5 Required to train and/or lead other staff	F			
6 Required to direct other staff (e.g. planning, goal setting,	0			
performance)				

PART 6: WORK PACE

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
1 Tightly scheduled and rapid pace of work activities at	0			
high volume				
2 Meet time-sensitive deadlines	0			
3 Long and/or irregular hours	N			
4 Limited/unpredictable opportunities for breaks	0			
5 Required to perform on-call or emergency work	0			

PART 7: COMPLEXITY/VARIABILITY

	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
1 Variable and unpredictable workflow	F			
2 Attention divided by issues requiring multi-tasking	F			
3 Work requires precise attention to detail	F			
4 Use of judgment in routine matters	F			
5 Requires use of judgment in adapting procedures from one	F			
task to another				
6 Possible legal ramifications associated with work activities	0			
or work product				

PART 8: INTERACTIONS WITH OTHERS

INT O. HATERACTIONS WITH OTHERS	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	7			
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
1 Works with others (e.g., co-workers, other	С			
departments/agencies, public)				
2 Interactions limited to giving/receiving information	F			
3 Interactions exceed giving/receiving information (e.g.,	F			
advises, persuades, justifies)				
4 Interactions occur under circumstances of emotional stress	N			
5 Risk of confrontation with violent or assaultive clients or	N			
customers				

PART 9: ENVIRONMENTAL FACTORS/WORKING CONDITIONS:

RT 9: ENVIRONMENTAL FACTORS/WORKING CONDITIONS:	FREQUENCY RATING	MEDICAL	PROVIDER	USE ONLY
	Never, Occasional;	Can	Temporarily	Permanently
Activity	Frequent, or Constant	Perform	Restricted	Restricted
1 Work Inside	C			
2 Work Outside	F			
3 Extreme Heat (above 100 degrees)	0			
4 Extreme Cold (below 32 degrees)	0			
5 Excessive Noise (must raise voice to be heard)	0			
6 Vibration (e.g., jackhammer, hammer drill, chainsaw, etc.)	N			
7 Dust, Vapors, Fumes, Smoke	0			
8 Silica, asbestos, etc.	N			
9 Solvents (e.g., gas, turpentine, etc.)	0			
10 Grease, oils	0			
11 Acidic, Caustic Solutions	N			
12 Pesticides	N			
13 Explosives (e.g., dynamite, bomb, etc.)	N			
14 Cleaning supplies, abrasives	N			
15 Other Chemicals (e.g. drugs and other contraband)	N			
16 Human Blood, Body Tissues, or Fluids	N			
17 Human Wastes	N			
18 Animal Blood, Body Tissues, or Fluids	N			
19 Animal Wastes	N			
20 Biological Toxins (e.g., poison ivy, poison oak, anthrax, etc.)	0			
21 Insect Bites (e.g., ticks, mosquitos, spiders, etc.)	0			
22 Biomedical Waste	N			
23 Ionizing Radiation	N			
24 Non-Ionizing Radiation	N			
25 Electrical Energy	0			
26 Walking on uneven, slippery, or rough surfaces	0			
27 Proximity to moving mechanical parts (e.g., equipment,	0			
machinery)				
28 Proximity to moving vehicles or objects	0			
29 Heights (e.g., rooftop, ladders, scaffolding, etc.)	0			
30 Contact with water, other liquids, humid conditions - not	N			
weather-related				
31 Work Below Ground: (e.g., excavation, trench, etc.)	N			
32 Potential exposure to airborne infectious diseases (e.g. clinics,	N			
labs, corrections)				
33 Operates non-commercial motor vehicles (cars, trucks)	0			
34 Operates commercial vehicles – CDL	N			
ClassEndorsements	.,			
35 Operates passenger van to transport clients, inmates, etc.	N			
36 Pulls non-commercial trailers or equipment	N			
37 Operates heavy equipment	N			
38 Other:				

PART 10: MEDICAL SCREENING, SURVEILLANCE AND VACCINATION REQUIREMENTS: Not Applicable

Please check each of the medical screening, surveillance, and vaccination requirements that apply to the position, and indicate if the requirement applies pre-employment/pre-placement only, or whether there are additional requirements after hire.

			Frequency (one-time,
Medical Screening, Surveillance or Vaccination	Pre-Hire	Post-Hire	annual, etc.)
1 Audiometric Testing			
2 DOT Commercial Driver Drug and Alcohol Screening			
3 DOT Commercial Driver Physical Exam			
4 Respirator Physical Exam			
5 Respirator Questionnaire – Short			
6 Respirator Questionnaire – Standard			
7 Blood lead level			
8 Hazardous Waste/Emergency Worker physical			
9 Heavy metal screen (mercury, lead, arsenic)			
10 HINT Hearing Noise Sensitivity Testing			
11 Tuberculosis skin test			
12 Vaccine: MMR			
13 Vaccine: Hepatitis B			
14 Vaccine: Influenza			
15 Vaccine: Meningococcal			
16 Vaccine: Pneumococcal			
17 Vaccine: Rabies			
18 Vaccine: Rabies Titer			
19 Vaccine: Tdap			
20 Vaccine: Chickenpox			

PART 11: ADDITIONAL INFORMATION, PICTURES, ETC.