South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000  •  www.aqmd.gov

Attachment A

HEALTH RISK ASSESSMENT SUMMARY FORM
(Required in Executive Summary of HRA)

Facility Name: University of California Riverside

Facility Address: 900 University Ave.
Riverside, CA 92521

Type of Business: Public research university

SCAQMD ID No.: 49387

A. Cancer Risk
(One in a million means one chance in a million of getting cancer from being constantly exposed to a certain level of a chemical over a period of time)

1. Inventory Reporting Year: 2013

2. Maximum Cancer Risk to Receptors: (Offsite and residence = 30-year exposure, worker = 25-year exposure)
   a. Offsite* 86.6 in a million Location: 469800 UTME, 3759200 UTMN (onsite the university)
   b. Residence 9.2 in a million Location: 470200 UTME, 3759500 UTMN (onsite the university)
   c. Worker 7.2 in a million Location: 469800 UTME, 3759200 UTMN (onsite the university)

3. Substances Accounting for 90% of Cancer Risk:
   Processes Accounting for 90% of Cancer Risk:
   DPM, PAH, benzene
   R219 rental DICEs, Lothian Hall sources, other fugitives

4. Cancer Burden for a 70-yr exposure: (Cancer Burden = [cancer risk] x [# of people exposed to specific cancer risk])
   a. Cancer Burden 0.05
   b. Number of people exposed to >1 per million cancer risk for a 70-yr exposure 17737
   c. Maximum distance to edge of 70-year, 1 x 10^-6 cancer risk isopleth (meters) 1875 m from center of facility

B. Hazard Indices (Long Term Effects (chronic) and Short Term Effects (acute))
(non-carcinogenic impacts are estimated by comparing calculated concentration to identified Reference Exposure Levels, and expressing this comparison in terms of a "Hazard Index")

1. Maximum Chronic Hazard Indices:
   a. Residence HI: 0.02 Location: 470200, 3759500 toxicological endpoint: respiratory
   b. Worker HI: 0.07 Location: 469800, 3759400 toxicological endpoint: respiratory

2. Substances Accounting for 90% of Chronic Hazard Index:
   nickel, DPM, arsenic

3. Maximum 8-hour Chronic Hazard Index:
   8-Hour Chronic H 0.02 Location: 469900, 3759300 toxicological endpoint: respiratory

4. Substances Accounting for 90% of 8-hour Chronic Hazard Index:
   nickel, formaldehyde

5. Maximum Acute Hazard Index:
   PMI: 0.97 Location: 470200, 3760000 toxicological endpoint: immune system

6. Substances Accounting for 90% of Acute Hazard Index:
   benzene

C. Public Notification and Risk Reduction

1. Public Notification Required? Yes X No
   a. If 'Yes', estimated population exposed to risks > 10 in a million for a 30-year exposure, or an HI >1

2. Risk Reduction Required? Yes X No

*This receptor is onsite the university and represents the point of maximum impact (PMI) only. Other onsite receptors are also evaluated to account for residential housing.
Amanda Grey  
Environmental Program Manager  
University of California Riverside  
900 University Ave.  
Riverside, CA  92521

Subject: Approval of AB 2588 Health Risk Assessment (HRA) for  
University of California Riverside (SCAQMD Facility ID No. 49387)

Dear Ms. Grey:

This letter provides an update to the November 15, 2018 approval letter from SCAQMD regarding the HRA submitted by University of California Riverside (UCR) pursuant to the Air Toxics “Hot Spots” Act (AB 2588) and South Coast Air Quality Management District’s (SCAQMD) Rule 1402. You requested a clarifying note to the HRA Summary Form to show that the maximum cancer risk of 86.6 in a million is onsite for the facility. The revised form is shown in Attachment A to this letter.

If you have any questions regarding this letter, please contact either Robert Wu, Air Quality Specialist, at (909) 396-3303, or Victoria Moaveni, Program Supervisor, at (909) 396-2455.

Sincerely,

Tracy A. Goss, P.E.  
Planning & Rules Manager  
Planning, Rule Development & Area Sources

TG:VM:FC:RW

Attachment:  
A. HRA Summary Form (revised)