

## APPENDIX G: GENERAL PREFERENCE QUESTIONNAIRE

Date: \_\_\_\_\_

Questionnaire: Preference

ID# \_\_\_\_\_

# GENERAL PREFERENCE QUESTIONNAIRE

We would like it if you could complete this questionnaire about your information preference. On this questionnaire, you are being asked to answer questions about some of the information that may or may not be available to you during your work day. The questionnaire has four sections. There is no right or wrong answer to these questions; we are only interested in your opinions. Please try to answer the questions as completely and honestly as possible. You will be given specific instructions to use for each of the sections.

## SECTION 1

### DEMOGRAPHIC INFORMATION

Please provide us with some information about yourself. Answer the questions to the best of your ability, rounding where necessary.

Age: \_\_\_\_\_ Years

Gender (circle one): Male Female

Height: \_\_\_\_\_ Feet \_\_\_\_\_ Inches

Weight: \_\_\_\_\_ Pounds

### MINING EXPERIENCE

Current Job Title:

Other Job Titles:

Total # of Mines

Worked: \_\_\_\_\_

	Years	Months
Experience in this Job Title		
Experience at this Mine		
Total Mining Experience		

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## SECTION 2

### CURRENT INFORMATION AVAILABILITY

In this section, we are asking you about your current work experience. When you answer these questions, please think about how it is at the mine where you currently work. Answer the questions only based on that experience. The questions will be about six (6) specific types of information (gas levels, airflow, dust levels, your location in the mine, other's location in the mine, and equipment location).

#### GAS LEVELS

1. How critical is it to you to know information about the **gas levels**?

1	2	3	4	5	6	7
Not Critical			Neutral			Critical

2. How often are the **gas levels** checked or monitored in your underground work location?  
(Please choose **only one**)

- |                        |                 |
|------------------------|-----------------|
| a. Continuously        | e. Every day    |
| b. A few times an hour | f. Every week   |
| c. Hourly              | g. Never        |
| d. Every shift         | h. I don't care |

3. Who currently has the ABILITY to check the **gas levels** at the mine where you work?  
(Please choose **only one**)

- Everyone
- A few people on the crew (Specify: \_\_\_\_\_)
- One person on the crew (Specify: \_\_\_\_\_)
- Someone on the outside (Specify: \_\_\_\_\_)
- Other (Specify: \_\_\_\_\_)
- No one

4. Who currently is RESPONSIBLE for monitoring the **gas levels** at the mine where you work?  
(Please choose **only one**)

- Everyone
- A few people on the crew (Specify: \_\_\_\_\_)
- One person on the crew (Specify: \_\_\_\_\_)
- Someone on the outside (Specify: \_\_\_\_\_)
- Other (Specify: \_\_\_\_\_)
- No one

5. Do you currently know the **gas levels** in your underground work location at any time during your shift?
- Yes

b. No

## AIRFLOW

6. How critical is it to you to know information about the **airflow**?

1	2	3	4	5	6	7
Not Critical			Neutral			Critical

7. How often is the **airflow** checked or monitored in your underground work location?

(Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

8. Who currently has the ABILITY to check the **airflow** at the mine where you work?

(Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

9. Who currently is RESPONSIBLE for monitoring the **airflow** at the mine where you work?

(Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

10. Do you currently know the **airflow** in your underground work location at any time during your shift?

- a. Yes
- b. No

**DUST LEVELS**

11. How critical is it to you to know information about the **dust levels**?

1	2	3	4	5	6	7
Not Critical			Neutral			Critical

12. How often are the **dust levels** checked or monitored in your underground work location?  
(Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

13. Who currently has the **ABILITY** to check the **dust levels** at the mine where you work?  
(Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

14. Who currently is **RESPONSIBLE** for monitoring the **dust levels** at the mine where you work?  
(Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

15. Do you currently know the **dust levels** in your underground work location at any time during your shift?

- a. Yes
- b. No

## YOUR LOCATION IN THE MINE

16. How critical is it to you to know information about **your location in the mine**?

1	2	3	4	5	6	7
Not Critical			Neutral			Critical

17. How often is **your location in the mine** checked or monitored at the mine where you work?  
(Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

18. Who currently has the ABILITY to check **your location in the mine** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

19. Who currently is RESPONSIBLE for monitoring **your location in the mine** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

20. Do you currently know **your location in the mine** at all times during your shift?

- a. Yes
- b. No

## THE LOCATION OF OTHER MINERS IN THE MINE

21. How critical is it to you to know information about the **location of other miners**?

1	2	3	4	5	6	7
Not Critical			Neutral			Critical

22. How often is the **location of other miners** checked or monitored at the mine where you work?  
(Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

23. Who currently has the ABILITY to check the **location of other miners** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

24. Who currently is RESPONSIBLE for monitoring the **location of other miners** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

25. Do you currently know the **location of other miners** at all times during your shift?

- a. Yes
- b. No



**EQUIPMENT LOCATION**

**Equipment Location** refers to all large pieces of equipment operating in the mine (Continuous Mining Machine, Shuttle Car(s), Scoop(s), etc.). This includes all the equipment, not just the equipment you use for your job unless otherwise specified.

26. How critical is it to you to know the **location of the equipment** you are directly working with?

1	2	3	4	5	6	7
Not Critical			Neutral			Critical

27. How critical is it to you to know the **location of the equipment** you are NOT directly working with (i.e. Continuous Mining Machine on another section)?

1	2	3	4	5	6	7
Not Critical			Neutral			Critical

28. How often is the **location of equipment** checked or monitored at the mine where you work? (Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

29. Who currently has the **ABILITY** to check the **location of equipment** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

30. Who currently is **RESPONSIBLE** for monitoring the **location of equipment** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)

f. No one

31. Do you currently know the **location of equipment** that you are directly working with at all times during your shift?

a. Yes

b. No

32. Do you currently know the **location of equipment** that you are NOT directly working with at any time during your shift?

a. Yes

b. No

## SECTION 3

### IDEAL WORLD INFORMATION AVAILABILITY

In this section, we are asking you to tell us about the best situation you could have. When you answer these questions, we would like you to think about how, in an ideal world, you would like it to be where you work and make your decisions based on that possible experience. The questions will be about six (6) specific types of information (gas levels, airflow, dust levels, your location in the mine, other's location in the mine, and equipment location).

### GAS LEVELS

33. Ideally, how often should the **gas levels** be checked or monitored in your underground work location? (Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

34. Ideally, who should have the ABILITY to check the **gas levels** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

35. Ideally, who should be RESPONSIBLE for monitoring the **gas levels** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

36. Ideally, how should you be alerted if there is a problem with the **gas levels** at the mine where you work? (Select **all** that apply)

- a. Light
- b. Auditory Tone (alarm warning or sound)
- c. Vibration
- d. Displayed Message (similar to a text message)
- e. Other (Specify: \_\_\_\_\_)

## AIRFLOW

37. Ideally, how often should the **airflow** be checked or monitored in your underground work location? (Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

38. Ideally, who should have the ABILITY to check the **airflow** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

39. Ideally, who should be RESPONSIBLE for monitoring the **airflow** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

40. Ideally, how should you be alerted if there is a problem with the **airflow** at the mine where you work? (Select **all** that apply)

- a. Light
- b. Auditory Tone (alarm warning or sound)
- c. Vibration
- d. Displayed Message (similar to a text message)
- e. Other (Specify: \_\_\_\_\_)

## DUST LEVELS

41. Ideally, how often should the **dust levels** be checked or monitored in your underground work location? (Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

42. Ideally, who should have the ABILITY to check the **dust levels** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

43. Ideally, who should be RESPONSIBLE for monitoring the **dust levels** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

44. Ideally, how should you be alerted if there is a problem with the **dust levels** at the mine where you work? (Select **all** that apply)

- a. Light
- b. Auditory Tone (alarm warning or sound)
- c. Vibration
- d. Displayed Message (similar to a text message)
- e. Other (Specify: \_\_\_\_\_)

## YOUR LOCATION IN THE MINE

45. Ideally, how often should **your location in the mine** be checked or monitored at the mine where you work? (Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

46. Ideally, who should have the ABILITY to check **your location in the mine** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

47. Ideally, who should be RESPONSIBLE for monitoring **your location in the mine** at the mine where you work? (Please choose **only one**)

- a. Everyone
- b. A few people on the crew (Specify: \_\_\_\_\_)
- c. One person on the crew (Specify: \_\_\_\_\_)
- d. Someone on the outside (Specify: \_\_\_\_\_)
- e. Other (Specify: \_\_\_\_\_)
- f. No one

48. Ideally, how should you be alerted if there is a problem with **your location in the mine** at the mine where you work? (Select **all** that apply)

- a. Light
- b. Auditory Tone (alarm warning or sound)
- c. Vibration
- d. Displayed Message (similar to a text message)
- e. Other (Specify: \_\_\_\_\_)

## THE LOCATION OF OTHER MINERS IN THE MINE

49. Ideally, how often should the **location of other miners** be checked or monitored at the mine where you work? (Please choose **only one**)

- a. Continuously
- b. A few times an hour
- c. Hourly
- d. Every shift
- e. Every day
- f. Every week
- g. Never
- h. I don't care

50. Ideally, who should have the ABILITY to check the **location of other miners** at the mine where you work? (Please choose **only one**)
- a. Everyone
  - b. A few people on the crew (Specify: \_\_\_\_\_)
  - c. One person on the crew (Specify: \_\_\_\_\_)
  - d. Someone on the outside (Specify: \_\_\_\_\_)
  - e. Other (Specify: \_\_\_\_\_)
  - f. No one
51. Ideally, who should be RESPONSIBLE for monitoring the **location of other miners** at the mine where you work? (Please choose **only one**)
- a. Everyone
  - b. A few people on the crew (Specify: \_\_\_\_\_)
  - c. One person on the crew (Specify: \_\_\_\_\_)
  - d. Someone on the outside (Specify: \_\_\_\_\_)
  - e. Other (Specify: \_\_\_\_\_)
  - f. No one
52. Ideally, how should you be alerted if there is a problem with the **location of other miners** at the mine where you work? (Select **all** that apply)
- a. Light
  - b. Auditory Tone (alarm warning or sound)
  - c. Vibration
  - d. Displayed Message (similar to a text message)
  - e. Other (Specify: \_\_\_\_\_)



**EQUIPMENT LOCATION**

**Equipment Location** refers to all large pieces of equipment operating in the mine (Continuous Mining Machine, Shuttle Car(s), Scoop(s), etc.). This includes all the equipment, not just the equipment you use for your job unless otherwise specified.

53. Ideally, how often should the **location of equipment** be checked or monitored at the mine where you work? (Please choose **only one**)
- Continuously
  - A few times an hour
  - Hourly
  - Every shift
  - Every day
  - Every week
  - Never
  - I don't care
54. Ideally, who should have the **ABILITY** to check the **location of equipment** at the mine where you work? (Please choose **only one**)
- Everyone
  - A few people on the crew (Specify: \_\_\_\_\_)
  - One person on the crew (Specify: \_\_\_\_\_)
  - Someone on the outside (Specify: \_\_\_\_\_)
  - Other (Specify: \_\_\_\_\_)
  - No one
55. Ideally, who should be **RESPONSIBLE** for monitoring the **location of equipment** at the mine where you work? (Please choose **only one**)
- Everyone
  - A few people on the crew (Specify: \_\_\_\_\_)
  - One person on the crew (Specify: \_\_\_\_\_)
  - Someone on the outside (Specify: \_\_\_\_\_)
  - Other (Specify: \_\_\_\_\_)
  - No one
56. Ideally, how should you be alerted if there is a problem with the **location of equipment** at the mine where you work? (Select **all** that apply)
- Light
  - Auditory Tone (alarm warning or sound)
  - Vibration
  - Displayed Message (similar to a text message)
  - Other (Specify: \_\_\_\_\_)

## SECTION 4

### VITALS PREFERENCES

In this section, we are asking you to tell us how you feel about your vital signs (for instance, your heart rate) being monitored while you work. Many people believe that having access to a person's vital signs could help save lives. Heart Rate can be used to detect stress and fatigue on a daily basis and be used to help triage and monitor miners in an emergency situation. If vital signs were monitored on mine rescue workers, it could also help avoid sudden heart attack due to stress or overexertion. The next set of questions is related to your opinions about heart rate monitoring in the mining industry.

57. Do you think monitoring heart rate on a daily basis would be useful?

- a. Yes
- b. No

Why or why not?

58. Do you think monitoring heart rate during an emergency situation would be useful?

- a. Yes
- b. No

Why or why not?

59. Do you think that the benefits of wearing a heart rate monitor justify wearing it every day?

Please consider the benefits both during an emergency and on a daily basis.

- a. Yes
- b. No

Why or why not?

60. Would you be willing to wear a heart rate monitor on a daily basis?

- a. Yes
- b. No

Why or why not?

61. Would you personally check or monitor your heart rate if that information was available?

- a. Yes
- b. No

Why or why not?

62. Would you allow other workers to monitor your heart rate?

- a. Yes
- b. No

Why or why not?

63. Would you check or monitor other workers heart rate if that information was available?

- a. Yes
- b. No

Why or why not?