

For Teachers: Please have the students read the sentences one at a time and correct their pronunciation of each sentence then have them repeat after you. Wait until after they read the sentence (use the number in place of the missing word) to have the students choose the correct answer to fill in the blank. When the students finish the article, move on to the further questions.

日本語訳なしタイプ B もございます。スクロールダウンするとございますので好きな方をご利用下さい。

2[B] – Coal Ash



AP1E 10-1

1. Most people probably imagine that, because of 放射能 (ほうしゃのう) radioactivity, it is more dangerous to live near a nuclear power plant than one fired by coal. It turns out that this may not be the case. Coal contains tiny amounts of 放射性 (ほうしゃせい) のある radioactive substances, which become more 濃縮 (のうしゅく) した concentrated in the ash that is released when coal is burned. (29), people living near coal-fired plants may 吸 (す) い込 (こ) む inhale small quantities of the radioactive substances. Recent studies have shown that coal-fired plants often release more radioactivity into the surrounding environment than nuclear plants, producing roughly the same amount of energy.

*Choose the correct answer to fill in the blank from these choices.

2. (26) 1 Nevertheless 2 In exchange
3. 3 By contrast 4 As a result

Further Questions&A

*Ask student to answer the question on their own at first. If the student can't answer correctly, have him look at the last page and read the "example answer" for the question. Have the student try to memorize the answer, if it's too long or difficult, you should divide the sentence into 2 or 3 parts to make it easier to remember. Once they have memorized the answer, the teacher should ask the question one last time so that the student can practice answering. Also if you find any mistakes, please mark the page and let me know ASAP.

4.1) What do most people probably imagine?

5. ほとんどの人が想像するであろうことはどんなことですか。

6.2) What are released when coal is burned?

7. 石炭が燃やされるときに放出されるものは何ですか。

8.3) Which type of power plant often releases more radioactivity?

9. どちらの発電所がより多くの放射能を放出しますか。

10.1) They imagine that, because of radioactivity, it is more dangerous to live near a nuclear power plant than one fired by coal.

11.2) Tiny amounts of radioactive substances are released when coal is burned.

12.3) Coal-fired plants often release more radioactivity into the surrounding environment than nuclear plants.

13. (30) that the coal ash itself is more radioactive than nuclear waste. However, the radioactive waste from nuclear plants is carefully shielded, whereas coal ash is simply released into the air or deposited into local ごみ処理 (しより) landfill sites. Therefore, radioactive substances from these sites can be absorbed into the soil and end up in the drinking water.

*Choose the correct answer to fill in the blank from these choices.

14. (30) 1 This is not to say 2 People should be informed
 15. 3 It is obvious 4 Scientists hope to show

Further Questions&A



16. 4) If coal ash isn't more radioactive than nuclear waste, why does it have a greater impact?

17. もし石炭灰が放射性廃棄物よりも放射性が高くないとしたら、なぜ石炭灰のほうが影響が大きいのですか。

18. 5) What can happen with the radioactive substances from coal plants?

19. 石炭発電所からの放射性物質にはどのようなことが起こりえますか。

20. 4) *The radioactive waste from nuclear plants is carefully shielded.*

21. 5) *They can be absorbed into the soil and end up in the drinking water.*

22. The good news, though, is that even in the case of coal-fired plants, the health

risk from radiation is 最小 (さいしょう) の minimal . "Other risks, like being hit by lightning, are

three or four times greater than 放射線 (ほうしやせん) に誘発 (ゆうはつ) された radiation-induced health effects from coal plants," according to Dana Christensen, an associate lab director at Oak

Ridge National Geological Survey. This opinion (31) 地質 (ちしつ) の the U.S. Geological Survey. According to a report by the Survey, people living within one kilometer of a coal-fired plant will only be exposed to a slightly higher-than-average level of radioactivity.

*Choose the correct answer to fill in the blank from these choices.

23. (31) 1 強調 (きょうちよう) する highlights problems with 2 creates difficulties for
 3 is supported by 4 may discourage

Further Questions&A



24. 6) How great is the health risk from radiation from coal-fired plants?

25. 石炭発電所から出る放射線による健康リスクはどれくらいのものですか。

26. 7) What risks does Dana Christensen say is greater than radiation-induced health effects from coal plants?

27. Dana Christensen は、石炭発電所からの放射線に誘発されて起こる健康への影響よりも大きなものとしてどんなリスクをあげていますか。

28. 8) What did the report by the U.S. Geological Survey say about exposure to radiation?

29. アメリカ地質調査所のレポートでは、放射線にさらされることについて何と言っていますか。

30. 6) *The health risk from radiation is minimal.*

31. 7) *Other risks, such as getting hit by lightning, are three or four times greater.*

32. 8) *The report said that people living within one kilometer of a coal-fired plant will only be exposed to a slightly higher-than-average level of radioactivity.*

Review Questions



- 33.1) What do most people probably imagine?
 34. *They imagine that, because of radioactivity, it is more dangerous to live near a nuclear power plant than one fired by coal.*
- 35.2) What are released when coal is burned?
 36. *Tiny amounts of radioactive substances are released when coal is burned.*
- 37.3) Which type of power plant often releases more radioactivity?
 38. *Coal-fired plants often release more radioactivity into the surrounding environment than nuclear plants.*
- 39.4) If coal ash isn't more radioactive than nuclear waste, why does it have a greater impact?
 40. *The radioactive waste from nuclear plants is carefully shielded.*
- 41.5) What can happen with the radioactive substances from coal plants?
 42. *They can be absorbed into the soil and end up in the drinking water.*
- 43.6) How great is the health risk from radiation from coal-fired plants?
 44. *The health risk from radiation is minimal.*
- 45.7) What risks does Dana Christensen say is greater than radiation-induced health effects from coal plants?
 46. *Other risks, such as getting hit by lightning, are three or four times greater.*
- 47.8) What did the report by the U.S. Geological Survey say about exposure to radiation?
 48. *The report said that people living within one kilometer of a coal-fired plant will only be exposed to a slightly higher-than-average level of radioactivity.*

解答: (29) 4 (30) 1 (31) 3



English Teachers On Call

Type B 日本語訳なし

2[B] – Coal Ash



AP1E 10-1

49. Most people probably imagine that, because of radioactivity, it is more dangerous to live near a nuclear power plant than one fired by coal. It turns out that this may not be the case. Coal contains tiny amounts of radioactive substances, which become more concentrated in the ash that is released when coal is burned. (29), people living near coal-fired plants may inhale small quantities of the radioactive substances. Recent studies have shown that coal-fired plants often release more radioactivity into the surrounding environment than nuclear plants, producing roughly the same amount of energy.

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Further Questions&A

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53. 2) What are released when coal is burned?
54. 3) Which type of power plant often releases more radioactivity?

55. (30) that the coal ash itself is more radioactive than nuclear waste. However, the radioactive waste from nuclear plants is carefully shielded, whereas coal ash is simply released into the air or deposited into local landfill sites. Therefore, radioactive substances from these sites can be absorbed into the soil and end up in the drinking water.

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56. (30) 1 This is not to say 2 People should be informed
57. 3 It is obvious 4 Scientists hope to show

Further Questions&A

58. 4) If coal ash isn't more radioactive than nuclear waste, why does it have a greater impact?
59. 5) What can happen with the radioactive substances from coal plants?

60. The good news, though, is that even in the case of coal-fired plants, the health risk from radiation are minimal. "Other risks, like being hit by lightning, are three or four times greater than radiation-induced health effects from coal plants," according to Dana Christensen, an associate lab director at Oak Ridge National Geological Survey. This opinion (31) the U.S. Geological Survey. According to a report by the Survey, people living within one kilometer of a coal-fired plant will only be exposed to a slightly higher-than-average level of radioactivity.

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Further Questions&A

62. 6) How great is the health risk from radiation from coal-fired plants?
63. 7) What risks does Dana Christensen say is greater than radiation-induced health effects from coal plants?
64. 8) What did the report by the U.S. Geological Survey say about exposure to radiation?

解答: (29) 4 (30) 1 (31) 3