

## Section 1:

### #1 - First paragraph and second paragraph Strengths:

- Strong opening that immediately establishes the central argument
- Effective use of historical context to support the main point

Weaknesses: Underdeveloped Connection → While you mention Three Mile Island in your opening, you don't fully establish the connection between its history and your argument against its repurposing. In "Nuclear power, while potentially beneficial for our energy needs," you could strengthen the link between past events and current concerns.

Exemplar: "Repurposing Three Mile Island, the site of one of America's most severe nuclear accidents, into a functioning nuclear power plant not only dismisses its troubled history but also raises critical safety and ethical concerns that demand careful consideration."

### #2 - Fourth and fifth paragraphs Strengths:

- Comprehensive analysis of the Fukushima disaster's impacts
- Clear progression from immediate to long-term consequences

Weaknesses: Transitional Flow → Your transition between the Fukushima disaster and nuclear waste management is abrupt. The phrase "Moreover, the management of nuclear waste" could better connect these related but distinct issues.

Exemplar: "The Fukushima disaster's ongoing contamination issues are emblematic of a broader challenge facing nuclear power: the management of radioactive waste, which remains hazardous for centuries."

### #3 - Final two paragraphs Strengths:

- Strong concluding argument that ties together multiple threads
- Effective presentation of alternative solutions

Weaknesses: Conclusion Rush → Your final paragraphs compress several important points too quickly. The phrase "Ultimately, while nuclear power" introduces too many new elements without sufficient development.

Exemplar: "The combination of historical accidents, unresolved waste management challenges, and substantial economic burden makes nuclear power—particularly at sites with troubled histories like Three Mile Island—an imprudent choice for our energy future."

Actionable Task: Rewrite the fourth and fifth paragraphs, creating a stronger transitional bridge between the Fukushima disaster and nuclear waste management by explicitly connecting how the disaster highlighted long-term waste management challenges.

**Score: 44/50**

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Section 2:

#1 Repurposing Three Mile Island into a fully functioning nuclear power plant is fraught with significant risks and concerns. Nuclear power, while potentially beneficial for our energy needs, has a history of catastrophic events and unresolved issues.

The most notable nuclear incidents—Three Mile Island, Chernobyl, and Fukushima—highlight the potential dangers. The Three Mile Island accident in 1979 caused widespread fear and revealed significant vulnerabilities in nuclear safety protocols. While the immediate health impacts were limited, the socio-economic consequences and loss of public trust in nuclear energy were profound.

The Chernobyl disaster in 1986 was even more devastating. The explosion and fire at the reactor released large amounts of radioactive materials into the environment, resulting in severe health effects for those exposed. The creation of a vast exclusion zone that remains uninhabitable today illustrates the long-term consequences of nuclear accidents.

#2 The Fukushima disaster in 2011 underscored the unpredictability of nuclear power in the face of natural disasters. Although there were no immediate deaths from radiation exposure, radionuclides such as iodine-131, caesium-134, and caesium-137 entered the ocean, drinking water, and food supplies. The long-lasting contamination highlights the severe risks of nuclear energy.

Moreover, the management of nuclear waste remains an unsolved problem. Nuclear reactors produce radioactive waste that remains hazardous for hundreds to thousands of years. This waste must be carefully managed to prevent environmental contamination. Currently, no fully effective and universally accepted methods for long-term disposal exist. Some countries, like Japan, have resorted to dumping radioactive waste into the ocean, a practice that poses significant environmental risks and has been met with international criticism.

The arguments in favour of nuclear power often cite its low greenhouse gas emissions compared to fossil fuels. Proponents argue that with proper safety measures and advancements in technology, nuclear energy can be a clean and reliable energy source. However, the history of nuclear energy reveals that even with stringent safety protocols, accidents can and do happen, leading to catastrophic consequences.

The potential for human error, natural disasters, and technical failures means that the risks associated with nuclear energy cannot be entirely eliminated. The accumulation of nuclear waste, which is difficult and dangerous to manage, further complicates the picture. This waste poses long-term environmental and health risks, as it can contaminate water supplies and ecosystems if not properly contained.

Nuclear power also has significant economic costs. Building and maintaining nuclear power plants requires substantial investment, and the costs associated with cleanup and decommissioning after an accident are enormous. The financial burden, combined with the potential for environmental and health impacts, makes nuclear power a less attractive option compared to renewable energy sources.

#3 ~~Ultimately, while~~ [While] nuclear power has the potential to provide a substantial portion of our energy needs with minimal greenhouse gas emissions, the risks and challenges associated with it are considerable. The history of nuclear accidents, the unresolved issue of nuclear waste disposal, and the potential for catastrophic environmental and health impacts suggest that repurposing Three Mile Island—or any site with a troubled nuclear history—into a functioning nuclear power plant is not a prudent choice. Instead, investing in safer and more sustainable energy sources, such as wind, solar, and hydroelectric power, would better address our energy needs and environmental concerns.