Solution Unsatisfactory

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FOREWORD

I had always planned to quit the writing business as soon as that mortgage was paid off. I had never had any literary ambitions, no training for it,no interest in it— backed into it by accident and stuck with it to pay off debt, I being always firmly resolved to quit the silly business once I had my chart squared away.

At a meeting of theMai~ana Literary Society—an amorphous disorganization having as its avowed purpose "to permit young writers to talk out their stories to each other in order to get them off their minds and thereby save themselves the trouble of writing them down"—at a gathering of this noble group I was expounding my determination to retire from writing once my bills were paid—in a few weeks, during 1940, if the tripe continued to sell.

William A. P. White ("Anthony Boucher") gave me a sour look. "Do you know any retired writers?"

"How could I? All the writers I've ever met are in this room.

"Irrelevant. You know retired school teachers, retired naval officers, retired policemen,retired farmers. Why don't you know at least one retired writer?"

"What are you driving at?"

"Robert, there are no retired writers. There are writers who have stoppedselling. . . but they have not stopped writing.

I pooh-poohed Bill's remarks—possibly what he said applied to writers in general. . . but I wasn't really a writer; I was just a chap who needed money and happened to discover that pulp writing offered an easy way to grab some without stealing and without honest work. ("Honest work"—a euphemism for underpaid bodily exertion, done standing up or on your knees, often in bad weather or other nasty circumstances, and frequently involving shovels, picks, hoes, assembly lines, tractors, and unsympathetic supervisors. It has never appealed to me.

Sitting at a typewriter in a nice warm room, with no boss, cannot possibly be described as "honest work.")

BLOWUPS HAPPEN sold and I gave amortgageburning party. But I did not quit writing at once (24 Feb 1940) because, while I had the Old Man of the Sea (that damned mortgage) off my back, there were still some other items. I needed a new car; the house needed paint and some repairs; I wanted to make a trip to New York; and it would not hurt to have a couple of hundred extra in the bank as a cushion— and I had a dozen-odd stories in file, planned and ready to write.

So I wrote MAGIC, INCORPORATED and started east on the proceeds, and wrote THEY and SIXTH COLUMN while I was on that trip. The latter was the only story of mine ever influenced to any marked degree by John W. Campbell, Jr. He had in file an unsold story he had written some years earlier. JWC did not show me his manuscript; instead he told me the story line orally and stated that, if I would write it, he would buy it.

He needed a serial; I needed an automobile. I took the brass check.

Writing SIXTH COLUMN was a job I sweated over. I had toreslant it to remove racist aspects of the original story line. And I didn't really believe the pseudoscientific rationale of Campbell's three spectra—so I worked especially hard to make it sound realistic.

It worked out all right. The check for the serial, plus 35~ in cash, bought me that new car...and the book editions continue to sell and sell and sell, and have earned more than forty times as much as I was paid for the serial. So it was a financial success. .but I do not consider it to be an artistic success.

While I was back east I told Campbell of my plans to quit writing later that year. He was not pleased as I was then his largest supplier of copy. I finally said, "John, I am not going to write any more stories against deadlines. But I do have a few more stories on tap that I could write. I'll send you a story from time to time...until the day

comeswhen you bounce one. At that point we're through. Now that I know you personally, having a story rejected by you would be too traumatic."

So I went back to California and sold him CROOKED

HOUSE and LOGIC OF EMPIRE and UNIVERSE and

SOLUTION UNSATISFACTORY and METHUSELAH'S

CHILDREN and BY HIS BOOTSTRAPS and COMMON

SENSE and GOLDFISH BOWL and BEYOND THIS

HORIZON and WALDO and THE UNPLEASANT

PROFESSION OF JONATHAN HOAG—which brings

ussmack up against World War II.

Campbell did bounce one of the above (and I shan't say which one) and I promptly retired—put in a new irrigation system—built a garden terrace—~resumed serious photography, etc. This went on for about a month when I found that I was beginning to be vaguely ill: poor appetite, loss of weight, insomnia, jittery, absentminded—much like the early symptoms of pulmonary tuberculosis, and I thought, "Damn it, am I going to have still a third attack?"

Campbell dropped me a note and asked why he hadn't heard from me?—I reminded him of our conversation months past: He had rejected one of my stories and that marked my retirement from an occupation that I had never planned to pursue permanently.

He wrote back and asked for another look at the story he had bounced. I sent it to him, he returned it promptly with the recommendation that I take out this comma, speed up the 1st half of page umpteen, delete that adjective—fiddle changes that Katie Tarrant would have done if told to.

I sat down at my typewriter to make the suggested changes...and suddenly realized that I felt good for the first time in weeks.

Bill "Tony Boucher" White had been dead right. Once you get the monkey on your back there is no cure short of the grave. I can leave the typewriter alone for weeks, even months, by going to sea. I can hold off for any necessary time if I am strenuously engaged in some other full-time,

worthwhileoccupation such as acon~ctruction job, a political campaign, or (damn it!) recovering from illness.

But if I simply loaf for more than two or three days, that monkey starts niggling at me. Then nothing short of a few thousand words will soothe my nerves. And as I get older the attacks get worse; it is beginning to take 300,000 words and up to produce that feeling of warm satiation. At that I don't have it in its most virulent form; two of my colleagues are reliably reported not to have missed their daily fix in more than forty years.

The best that can be said for SOLUTION UNSATISFACTORY is that the solution is still unsatisfactory and the dangers are greater than ever. There is little satisfaction in having called the turn forty years ago; being a real-life Cassandra is not happy-making.

SOLUTION UNSATISFACTORY

In 1903 the Wright brothers flew at Kitty Hawk. In December, 1938, in Berlin, Dr. Hahn split the uranium atom.

In April, 1943, Dr. EstelleKarst , working under the Federal Emergency Defense Authority, perfected theKarst-Obre technique for producing artificialradioactives .

So American foreign policy had to change.

Had to.Had to.It is very difficult to tuck a bugle call back into a bugle. Pandora's Box is a one-way propositiori . You can turn pig into sausage, but not sausage into pig. Broken eggs stay broken. "All the King's horses and all the King's men can't put Humpty together again."

I ought to know—I was one of the King's men.

By rights I should not have been. I was not a professional military man when World War II broke out, and when Congress passed the draft law I drew a high number, high enough to keep me out of the army long enough to die of old age.

Not that very many died of old age that generation! But I was the newly appointed secretary to a freshman congressman; I had been his campaign manager and my former job had left me. By profession, I was a high-school teacher of economics and sociology-school boards don't like teachers of social

subjects actually to deal with social problems—and my contract

wasnot renewed. I jumped atth ~ chance to go to Washington.

My congressman was named Manning. Yes, the Manning, Colonel Clyde C. Manning, U. S. Army retired—Mr. Commissioner Manning. What you may not know about him is that he was one of the Army's No. 1 experts in chemical warfare before a leaky heart put him on the shelf. I had picked him, with the help of a group of my political associates, to run against the two-bit chiseler who was the incumbent in our district. We needed a strong liberal candidate and Manning was tailor-made for the job. He had served one term in the grand jury, which cut his political eye teeth, and had stayed active in civic matters thereafter.

Being a retired army officer was a political advantage in vote-getting among the more conservative and well-to-do citizens, and his record was O.K. for the other side of the fence. I'm not primarily concerned with vote-getting; what I liked about him was that, though he was liberal, he was tough-minded, which most liberals aren't. Most liberals believe that water runs downhill, but,praise God, it'll never reach the bottom.

Manning was not like that. He could see a logical necessity and act on it, no matter how unpleasant it might be.

We were in Manning's suite in the House Office Building, taking a little blow from that stormy first session of the Seventy-eighth Congress and trying to catch up on a mountain of correspondence, when the War Department called. Manning answered it himself.

I had to overhear, but then I was his secretary. "Yes," he said, "speaking. Very well, put him on. Oh

hello, General . . . Fine, thanks.Yourself?" Then there was a long silence. Presently, Manning said, "But I can't do that, General, I've got this job to take

careof. . . . What's that?... Yes, who is to do my committee work and represent my district? . . . I think so." He glanced at his wrist watch. "I'll be right over." He put down the phone, turned to me, and said, "Get your hat, John. We are going over to the War Department."

"So?" I said, complying.

"Yes," he said with a worried look, "the Chief of Staff thinks I ought to go back to duty." He set off at a brisk walk, with me hanging back to try to force him not to strain his bum heart. "It's impossible, of course." We grabbed a taxi from the stand in front of the office building and headed for the Department.

But it was possible, and Manning agreed to it, after the Chief of Staff presented his case. Manning had to be convinced, for there is no way on earth for anyone, even the President himself, to order a congressman to leave his post, even though he happens to be a member of the military service, too.

The Chief of Staff had anticipated the political difficulty and had been forehanded enough to have already dug up an opposition congressman with whom to pair Manning's vote for the duration of the emergency. This other congressman, the Honorable Joseph T. Brigham, was a reserve officer who wanted to go to duty himself—or was willing to; I never found out which. Being from the opposite political party, his vote in the House of Representatives could be permanently paired against Manning's

and neither party would lose by the arrangement.

There was talk of leaving me in Washington to handle the political details of Manning's office, but Manning decided against it, judging that his other secretary could do that, and announced that I must go along as his adjutant. The Chief of Staff demurred, but Manning was in a position to insist, and the Chief had to give in.

A chief of staff can get things done in a hurry if he wants to. I was sworn in as a temporary officer before

weleft the building; before the day was out Iwa the bank, signing a note to pay for the sloppy ser uniforms the Army had adopted and to buy a d uniform with a beautiful shiny belt—a dressoi

which, as it turned out, I was never to need.

We drove over into Maryland the next day and l"~' fling took charge of the Federal nuclear research oratory, known officially by the hush-hush title of1 Department Special Defense Project No. 347. Idi know a lot about physics and nothing about mo atomic physics, aside from the stuff you read in Sunday supplements. Later, I picked up a smatter mostly wrong, I suppose, from associating with heavyweights with whom the laboratory wasstal Colonel Manning had taken an Armyp.g .cours Massachusetts Tech and had received a master ofence degree for a brilliant thesis on themathemal theories of atomic structure. That was why the A:

hadto have him for this job. But that had been s years before; atomic theory had turned several c wheels in the meantime; he admitted to metha had to bone like the very devil to try to catch uptc point where he could begin to understand what highbrow charges were talking about in their rep I think he overstated the degree of hisignora .there was certainly no one else in the United St who could have done the job. It required a man

coulddirect and suggest research in a highlyesot field, but who saw the problem from thestandpoii

urgentmilitary necessity Left to themselves the

4 sicistswould have reveled in the intellectualluxui

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inhuman knowledge, they might never have dc

opedanything of military usefulness, or themili

possibilitiesof a discovery might be missed foryc

It's like this: It takes a smart dog to hunt birds,

ittakes a hunter behind him to keep him from was

timechasing rabbits. And the hunter needs to know nearly as much as the dog.

No derogatory reference to the scientists is intended—by no means! We had all the genius in the

field that the United States could produce, men from Chicago, Columbia, Cornell, M. I. T., Cal Tech, Berkeley, every radiation laboratory in the country, as well as a couple of broad-A boys lent to us by the British. And they had every facility that ingenuity could think up and money could build. The five-hundred-ton cyclotron which had originally been intended for the University of California was there, and was already obsolete in the face of the new gadgets these brains had thought up, asked for, and been given. Canada supplied us with all the uranium we asked for—tons of the treacherous stuff—from Great Bear Lake, up near the Yukon, and the fractional-residues technique of separating uranium isotope 235 from the commoner isotope 238 had already been worked out, by the same team from Chicago that had worked up the earlier expensive massspectograph method.

Someone in the United States government had realized the terrific potentialities of uranium 235 quite early and, as far back as the summer of 1940, had rounded up every atomic research man in the country and had sworn them to silence. Atomic power, if ever developed, was planned to be a government monopoly, at least till the war was over. It might turn out to be the most incredibly powerful explosive ever dreamed of, and it might be the source of equally incredible power. In any case, with Hitler talking about secret weapons and shouting hoarse insults at democracies, the government planned to keep any new discoveries very close to the vest.

Hitler had lost the advantage of a first crack at the secret of uranium through not taking precautions. Dr. Hahn, the first man to break open the uranium atom, was a German. But one of his laboratory assistants

hadfled Germany to escape a pogrom. She came to this country, and told us about it.

We were searching, there in the laboratory in Maryland, for a way to use U235 in a controlled explosion. We had a vision of a one-ton bomb that would be a whole air raid in itself, a single explosion that would flatten out an entire industrial center. Dr.Ridpath , of Continental Tech, claimed that he could build such a bomb, but that he could not guarantee that it would not explode as soon as it was loaded and as for the force of the explosion—well, he did not believe his own figures; they ran out to too many ciphers.

The problem was, strangely enough, to find an explosive which would be weak enough to blow up only one county at a time, and stable enough to blow up only on request. If we could devise a really practical rocket fuel at the same time, one capable of driving a war rocket at a thousand miles an hour, or more, then we would be in a position to make most anybody say “uncle” to Uncle Sam.

We fiddled around with it all the rest of 1943 and well into 1944. The war in Europe and the troubles in Asia dragged on. After Italy folded up, England was able to release enough ships from her Mediterranean fleet to ease the blockade of the British Isles. With the help of the planes we could now send her regularly and with the additional over-age destroyers we let her have, England hung on somehow, digging in and taking more and more of her essential defense industries underground. Russia shifted her weight from side to side as usual, apparently with the policy of preventing either side from getting a sufficient advantage to bring the war to a successful conclusion. People were beginning to speak of “permanent war.”

I was killing time in the administrative office, trying to improve my typing—a lot of Manning’s reports

had to be typed by me personally—when the orderly on

dutystepped in and announced Dr.Karst . I flipped the interoffice communicator. "Dr.Karst is here, chief. Can you see her?"

"Yes," he answered, through his end. I told the orderly to show her in.

EstelleKarst was quite a remarkable old girl and, I suppose, the first woman ever to hold a commission in the Corps of Engineers. She was an M.D. as well asanSc.D . and reminded me of the teacher I had had in fourth grade. I guess that was why I always stood up instinctively when she came into the room—I was afraid she might look at me and sniff. It couldn't have been her rank; we didn't bother much with rank.

She was dressed in white coveralls and a shop apron and had simply thrown a hooded cape over herself to come through the snow. I said, "Good morning, ma'am," and led her into Manning's office.

The Colonel greeted her with the urbanity that had made him such a success with women's clubs, seated her, and offered her a cigarette.

"I'm glad to see you, Major," he said. "I've been intending to drop around to your shop."

I knew what he was getting at; Dr. Karst's work had been primarilyphysiomedical ; he wanted her to change the direction of her research to something more productive in a military sense.

"Don't call me 'major,'" she said tartly.

"Sorry, Doctor—"

"I came on business, and must get right back. And I presume you are a busy man, too. Colonel Manning, I need some help."

"That's what we are here for."

"Good. I've run into some snags in my research. I think that one of the men in Dr.Ridpath's department could help me, but Dr.Ridpath doesn't seem disposed to be cooperative."

"So? Well, I hardly like to go over the head of a departmental chief, but tell me about it; perhaps we can arrange it. Whom do you want?"

"I need Dr.Obre ."

"Thespectroscopist .Hm-m-m.I can understand Dr.Ridpath's reluctance, Dr.Karst , and I'm disposed to agree with him. After all, the high-explosives research is really our main show around here."

She bristled and I thought she was going to make him stay in after school at the very least. "Colonel Manning, do you realize the importance of artificialradioactives to modern medicine?"

"Why, I believe I do. Nevertheless, Doctor, our primary mission is to perfect a weapon which will serve as a safeguard to the whole country in time of war—" She sniffed and went into action. "Weapons—fiddlesticks! Isn't there a medical corps in the Army? Isn't it more important to know how to heal men than to know how to blow them to bits? Colonel Manning, you're not a fit man to have

charge of this project! You'rea. . . you're a, a warmonger, that's what you are!"

I felt my ears turning red, but Manning never budged. He could have raised Cain with her, confined her to her quarters, maybe even have court-martialed her, but Manning isn't like that. He told me once that every time a man is court-martialed, it is a sure sign that some senior officer hasn't measured up to his job. "I am sorry you feel that way, Doctor," he said mildly, "and I agree that my technical knowledge isn't what it might be. And, believe me, I do wish that healing were all we had to worry about. In any case, I have not refused your request. Let's walk over to your laboratory and see what the problem is. Likely there is some arrangement that can be made which will satisfy everybody.

He was already up and getting out his greatcoat. Her set mouth relaxed a trifle and she answered, "Very well. I'm sorry I spoke as I did."

"Not at all," he replied. "These are worrying times. Come along, John."

I trailed after them, stopping in the outer office to get my own coat and to stuff my notebook in a pocket.

By the time we had trudged through mushy snow

theeighth of a mile to her lab they were talking about gardening!

Manning acknowledged the sentry's challenge with a wave of his hand and we entered the building. He started casually on into the inner lab, butKarst stopped him. "Armor first, Colonel."

We had trouble finding overshoes that would fit over Manning's boots, which he persisted in wearing, despite the new uniform regulations, and he wanted to omit the foot protection, butKarst would not hear of it. She called in a couple of her assistants who made jury-rigged moccasins out of some soft-lead sheeting. The helmets were different from those used in the explosives lab, being fitted with inhalers. "What's this?" inquired Manning.

"Radioactive dust guard," she said. "It's absolutely essential."

We threaded a lead-lined meander and arrived at the workroom door which she opened by combination. I blinked at the sudden bright illumination and noticed the air was filled with little shiny motes.

"Hm-m-m—it is dusty," agreed Manning. "Isn't there some way of controlling that?" His voice sounded muffled from behind the dust mask.

"The last stage has to be exposed to air," explainedKarst . "The hood gets most of it. We could control it, but it would mean a quite expensive new installation."

"No trouble about that. We're not on a budget, you know, It must be very annoying to have to work in a mask like this."

"It is," acknowledgedKarst . "The kind of gear it would take would enable us to work without body armor, too. That would be a comfort."

I suddenly had a picture of the kind of thing these researchers put up with. I am a fair-sized man, yet I found that armor heavy to carry around. EstelleKarst was a small woman, yet she was willing to work maybe fourteen hours, day after day, in an outfit

whichwas about as comfortable as a diving suit. But she had not complained.

Not all the heroes are in the headlines. These radiation experts not only ran the chance of cancer and nastyradioaction burns, but the men stood a chance of damaging their germplasm and then having their wives present them with something horrid in the way of offspring—no chin, for example, and long hairy ears. Nevertheless, they went right ahead and never seemed to get irritated unless something held up their work.

Dr.Karst was past the age when she would be likely to be concerned personally about progeny, but the principle applies.

I wandered around, looking at the unlikely apparatus she used to get her results, fascinated as always by my failure to recognize much that reminded me of the physics laboratory I had known when I was an undergraduate, and being careful not to touch anything.Karst started explaining to Manning what she was doing and why, but I knew that it was useless for me to try to follow that technical stuff.If Manning wanted notes, he would dictate them. My attention was caught by a big boxlike contraption in one corner of the room. It had ahopperlike gadget on one side and I could hear a sound from it like the whirring of a fan with a background of running water. It intrigued me. I moved back to the neighborhood of Dr.Karst and the Colonel and heard her saying, "The problem amounts to this, Colonel: I am getting a much more highly radioactive end product than I want, but there is considerable variation in the half-life of otherwise equivalent samples. That suggests to me that I am using a mixture of isotopes, but I haven't been able to prove it. And frankly, I do not know enough about that end of the field to be sure of sufficient refinement in my methods. I need Dr.Obre's help on that."

I think those were her words, but I may not be doing her justice, not being a physicist. I understood the part

about"half-life." All radioactive materials keep right on radiating until they turn into something else, which takes theoretically forever. As a matter of practice their periods, or "lives," are described in terms of how long it takes the original radiation to drop toonehalf strength. That time is called a "half-life" and each radioactive isotope of an element has its own specific characteristic half-lifetime.

One of the staff—I forget which one—told me once that any form of matter can be considered as radioactive in some degree; it's a question of intensity and period, or half-life.

"I'll talk to Dr.Ridpath ," Manning answered her, "and see what can be arranged. In the meantime you might draw up plans for what you want to reequip your laboratory."

"Thank you, Colonel."

I could see that Manning was about ready to leave, having pacified her; I was still curious about the big box that gave out the odd noises.

"May I ask what that is, Doctor?"

"Oh, that? That's an air conditioner."

"Odd-looking one.I've never seen one like it."

"It's not to condition the air of this room. It's to remove the radioactive dust before the exhaust air goes

outdoors. We wash the dust out of the foul air."

"Where does the water go?"

"Down the drain.Out into the bay eventually, I suppose.

I tried to snap my fingers, which was impossible because of the lead mittens. "That accounts for it, Colonel!"

"Accounts for what?"

"Accounts for those accusing notes we've been getting from the Bureau of Fisheries. This poisonous dust is being carried out into Chesapeake Bay and is killing the fish."

Manning turned toKarst . "Do you think that possible, Doctor?"

I could see her brows draw together through the window in her helmet. "I hadn't thought about it," she admitted. "I'd have to do some figuring on the possible concentrations before I could give you a definite answer. But it is possible—yes. However," she added anxiously, "it would be simple enough to divert this drain to a sink hole of some sort."

"Hm-m-m—yes."He did not say anything for some minutes, simply stood there, looking at the box.

Presently he said, "This dust is pretty lethal?"

"Quite lethal, Colonel."There was another long silence.

At last I gathered he had made up his mind about something for he said decisively, "I am going to see to it that you getObre's assistance, Doctor—"

"Oh, good!"

"—but I want you to help me in return. I am very much interested in this research of yours, but I want it carried on with a little broader scope. I want you to investigate for maxima both in period and intensity as well as for minima. I want you to drop the strictly utilitarian approach and make an exhaustive research along lines which we will work out in greater detail later."

She started to say something but he cut in ahead of her. "A really thorough program of research should prove more helpful in the long run to your original purpose than amore narrow one. And I shall make it my business to expedite every possible facility for such a research. I think we may turn up a number of interesting things."

He left immediately, giving her no time to discuss it. He did not seem to want to talk on the way back and I held my peace. I think he had already gotten a glimmering of the bold and drastic strategy this was to lead

to, but even Manning could not have thought out that early the inescapable consequences of a few dead fish—otherwise he would never have ordered the research.

No, I don't really believe that. He would have gone right ahead, knowing that if he did not do it, someone else would. He would have accepted the responsibility while bitterly aware of its weight.

1944 wore along with no great excitement on the surface.Karst got her new laboratory equipment and so much additional help that her department rapidly became the largest on the grounds. The explosives research was suspended after a conference between Manning andRidpath , of which I heard only the end, but the meat of it was that there existed not even a remote possibility at that time of utilizing U235 as an explosive. As a source of power, yes, sometime in the distant future when there had been more opportunity to deal with the extremely ticklish problem of controlling the nuclear reaction. Even then it seemed likely that it would riot be a source of power in prime movers such as rocket motors or mobiles, but would be used in vast power plants at least as large as the Boulder Dam installation.

After thatRidpath became a sort of co-chairman of Karst's department and the equipment formerly used by the explosives department was adapted or replaced to carry on research on the deadly artificial radioactives . Manning arranged a division of labor andKarst stuck to her original problem of developing techniques for tailor-makingradioactives . I think she was perfectly happy, sticking with a one-track mind to the problem at hand. I don't know to this day whether or not Manning andRidpath ever saw fit to discuss with her what they intended to do.

As a matter of fact, I was too busy myself to think much about it. The general elections were coming up and I was determined that Manning should have a

constituencyto return to, when the emergency was over. He was not muchinterested,'but agreed to let his name be filed as a candidate for re-election. I was trying to work up a campaign by remote control and cursing because I could not be in the field to deal with the thousand and one emergencies as they arose.

I did the next best thing and had a private line installed to permit the campaign chairman to reach me easily. I don't think I violated the Hatch Act, but I guess I stretched it a little. Anyhow, it turned out all right; Manning was elected as were several other members of the citizen-military that year. An attempt was made to smear him by claiming that he was taking two salaries for one job, but we squelched that with a pamphlet entitled "For Shame!" which explained that he got one salary for two jobs. That's the Federal law in such cases and people are entitled to know it.

It was just before Christmas that Manning first admitted to me how much the implications of the KarstObre process were preying on his mind. He called me into his office over some inconsequential matter,then did not let me go. I saw that he wanted totaik .

"How much of the K-O dust do we now have on hand?" he asked suddenly.

"Just short of ten thousand units," I replied. "I can look up the exact figures in half a moment." A unit would take care of a thousand men, at normal dispersion. He knew the figure as well as I did, and I knew he was stalling.

We had shifted almost imperceptibly from research to manufacture, entirely on Manning's initiative and authority. Manning had never made a specific report to the Department about it, unless he had done so orally to the Chief of Staff.

"Never mind," he answered to my suggestion,then added, "Did you see those horses?"

"Yes," I said briefly.

I did not want to talk about it. I like horses. Wehac requisitioned six broken-down old nags, ready forth bone yard, and had used them experimentally. W knew now what the dust would do. After they had died any part of their carcasses would register on a photo graphic plate and tissue from the apices of their lung1 and from the bronchia glowed with a light of its own. Manning stood at the window, staring out atth dreary Maryland winter for a minute or two before re plying, "John, I wish that radioactivity had never beer discovered. Do you realize what that devilishstuf amounts to?"

"Well," I said, "it's a weapon, about likepoisor gas—maybe more efficient."

"Rats!" he said, and for a moment I thoughthewa ~ annoyed with me personally. "That's about like corn paring a sixteen-inch gun with a bow and arrow We've got here the first weapon the world has eve~ seen against which there is no defense, nonewhatso ever. It's death itself, C.O.D.

"Have you seenRidpath's report?" he went on. I had not.Ridpath had taken to delivering his re ports by hand to Manning personally.

"Well," he said, "ever since we startedproductioi I've had all the talent we could spare working onth problem of a defense against the dust.RidpathtelL me and I agree with him that there is no means what soever to combat the stuff, once it's used."

"How about armor," I asked, "and protective clothing ?"

"Sure, sure," he agreedirritatedly , "providedyoi never take it off to eat, or to drink or for anypurpos whatever, until theradioaction has ceased, or youar out of the danger zone. That is all right forlaborator work; I'm talking about war."

I considered the matter. "I still don't see whatyoi are fretting about, Colonel. If the stuff is as good as yo ~ say it is, you've done just exactly what you set outtc

do—develop a weapon which would give the United States protection againstaggressio'n ."

He swung around. "John, there are times when I think you are downright stupid!"

I said nothing. I knew him and I knew how to discount his moods. The fact that he permitted me to see his feelings is the finest compliment I have ever had. "Look at it this way," he went on more patiently; "this dust, as a weapon, is not just simply sufficient to safeguard the United States, it amounts to a loaded gun held at the head of every man, woman, and child on the globe!"

"Well," I answered, "what of that? It's our secret, and we've got the upper hand. The United States can put a stop to this war, and any other war. We can declare aPax Americana, and enforce it."

"Hm-m-m—I wish it were that easy. But it won't remain our secret; you can count on that. It doesn't matter how successfully we guard it; all that anyone needs is the hint given by the dust itself and then it is just a matter of time until some other nation develops a technique to produce it. You can't stop brains from working, John; the reinvention of the method is a mathematical certainty, once they know what it is they are looking for. And uranium is a common enough substance, widely distributed over the globe-don't forget that!

"It's like this: Once the secret is out—and it will be out if we ever use the stuff!—the whole world will be comparable to a room full of men, each armed with a loaded .45. They can't get out of the room and each one is dependent on the good will of every other one to stay alive.All offense and no defense. See what I mean?"

I thought about it, but I still didn't guess at the difficulties. It seemed to me that a peace enforced by us was the only way out, with precautions taken to see that we controlled the sources of uranium. I had the usual American subconscious conviction that our

country would never use power in sheeraggressior Later, I thought about the Mexican War and the Spar ish -American War and some of the things we didi Central America, and I was not so sure— It was a couple of weeks later, shortly afterinaugi .

rationday, that Manning told me to get the Chief c Staff's office on the telephone. I heard only the tail en of the conversation. "No, General, I won't,"Mannin was saying. "I won't discuss it with you, or theSecr tary , either. This is a matter the Commander in Chi is going to have to decide in the long run. If he turns down, it is imperative that no one else everknoi ~ about it. That's my considered opinion.. . .What that? . . . I took this job under the condition that Iwa to have a free hand. You've got to give me a little le way this time.. . .Don't go brass hat on me. Ikne ~ you when you were a plebe... .O.K., O.K., sorry... If the Secretary of War won't listen to reason, youte him I'll be in my seat in the House ofRepresentativc tomorrow, and that I'll get the favor I want fromth majority leader. . . .All right. Good-bye."

Washington rang up again about an hour later.]was the Secretary of War.This time Manninglistene more than he talked. Toward the end, he said, "All want is thirty minutes alone with the President. I nothing comes of it, no harmhas been done. If Icorvince him, then you will know all about it. . . . No,Si :

I did not mean that you would avoid responsibility.intended to be helpful. . . . Fine! Thank you, Mr. Se retary ."

The White House rang up later in the day and set time.

We drove down to the District the next daythroug a nasty cold rain that threatened to turn to sleet. TF usual congestion in Washington was made worse b the weather; it very nearly caused us to be late in a:

riving. I could hear Manning swearing under h'

breathall the way down Rhode Island Avenue. But we were dropped at the west wing entrance to the White House with two minutes to spare. Manning was ushered into the Oval Office almost at once and I was left cooling my heels and trying to get comfortable in civilian clothes. After so many months of uniform they itched in the wrong places.

The thirty minutes went by.

The President's reception secretary went in, and came out very promptly indeed. He stepped on out into the outer reception room and I heard something that began with, "I'm sorry, Senator, but—" He came back in, made a penciled notation, and passed it out to an usher.

Two more hours went by.

Manning appeared at the door at last and the secretary looked relieved. But he did not come out, saying instead, "Come in, John. The President wants to take a look at you."

I fell over my feet getting up.

Manning said, "Mr. President, this is CaptainDeFries ." The President nodded, and I bowed, unable to say anything. He was standing on the hearth rug, his fine head turned toward us, and looking just like his pictures—but it seemed strange for the President of the United States not to be a tall man.

I had never seen him before, though, of course, I knew something of his record the two years he had been in the Senate and while he was Mayor before that.

The President said, "Sit down,DeFries . Care to smoke?"Then to Manning. "You think he can do it?"

"I think he'll have to. It's Hobson's choice."

"And you are sure of him?"

"He was my campaign manager."

"I see."

The President said nothing more for a while and God knows I didn't!—though I was bursting to know what they were talking about. He commenced again with,

"Colonel Manning, I intend to follow theprocedur you have suggested, with the changes wediscusse But I will be down tomorrow to see for myself thatth dust will do what you say it will. Can you prepare demonstration?"

"Yes, Mr. President."

"Very well, we will use CaptainDeFries unless think of a better procedure." I thought for amomer that they planned to use me for a guinea pig! But h turned to me and continued, "Captain, I expect tosen you to England as my representative."

I gulped. "Yes, Mr. President." And that is ever word I had to say in calling on the President ofth United States.

After that, Manning had to tell me a lot of things h had on his mind. I am going to try to relate them ~ carefully as possible, even at the risk of being dull an obvious and of repeating things that arecommo knowledge.

We had a weapon that could not be stopped.An type of K-O dust scattered over an area renderedth ~ area uninhabitable for a length of time thatdepende on the half-life of the radioactivity.

Period.Full stop.

Once an area was dusted there was nothingth ~ could be done about it until the radioactivity ha fallen

off to the point where it was no longerharmfu The dust could not be cleaned out; it waseverywhen There was no possible way to counteract it—burni combine it chemically; the radioactive isotope w~ still there, still radioactive, still deadly. Once used o a stretch of land, for a predetermined length oftim that piece of earth would not tolerate life.

It was extremely simple to use. No complicate bomb-~ightswereneeded, no care need be taken to h "military objectives." Take it aloft in any sort ofai :

craft, attain a position more or less over the areayo

wishto sterilize, and drop the stuff. Those on the ground in the contaminated area are dead men, dead in an hour, a day, a week, a month, depending on the degree of the infection—but dead.

Manning told me that he had once seriously considered, in the middle of the night, recommending that every single person, including himself, who knew theKarst-Obre technique be put to death, in the interests of all civilization. But he had realized the next day that it had been sheer funk; the technique was certain in time to be rediscovered by someone else.

Furthermore, it would not do to wait, to refrain from using the grisly power, until someone else perfected it and used it. The only possible chance to keep the world from being turned into one huge morgue was for us to use the power first and drastically—get the upper hand and keep it.

We were not at war, legally, yet we had been in the war up to our necks with our weight on the side of democracy since 1940. Manning had proposed to the President that we turn a supply of the dust over to Great Britain, under conditions we specified, and enable them thereby to force a peace. But the terms of the peace would be dictated by the United States—for we were not turning over the secret.

After that, thePax Americana.

The United States was having power thrust on it, willy-nilly. We had to accept it and enforce a worldwide peace, ruthlessly and drastically, or it would be seized by some other nation. There could not be coequals in the possession of this weapon. The factor of time predominated.

I was selected to handle the details in England because Manning insisted, and the President agreed with him, that every person technically acquainted with theKarst-Obre process should remain on the laboratory reservation in what amounted to protective custody—imprisonment. That included Manning himself.

I could go because I did not have the secret—Icoul not even have acquired it without years of schoolingand what I did not know I could not tell, evenunde :

well, drugs. We were determined to keep the secret a long as we could to consolidate thePax ; we did nc distrust our English cousins, but they wereBritisher with a first loyalty to the British Empire. No need t tempt them.

I was picked because I understood thebackgroun if not the science, and because Manning trusted me. don't know why the President trusted me, too, hi.then my job was not complicated.

We took off from the new field outside Baltimore o a cold, raw afternoon which matched my own

feeling I had an all-gone feeling in my stomach,a runnynos and, buttoned inside my clothes, papers appointin me a special agent of the President of the Unite States. They were odd papers, papers without prec ~ dent; they did not simply give me the usualdiplomati immunity; they made my person very nearly assacre as that of the President himself.

At Nova Scotia we touched ground to refuel,tF F.B.I. men left us, we took off again, and the Canadiatransfighters took their stations around us.All thedu :

wewere sending was in my plane; if the President representative were shot down, the dust would go 1 the bottom with him.

No need to tell of the crossing. I was airsick and mierable , in spite of the steadiness of the new six-engine jobs. I felt like a hangman on the way to anexecutio] and wished to God that I were a boy again, with not]ing more momentous than a debate contest, or atrac meet, to worry me.

There was some fighting around us as weneare Scotland, I know, but I could not see it, the cabinbeir shuttered. Our pilot-captain ignored it andbrougi his ship down on a totally dark field, using a beam,

suppose, though I did not know nor care. I would have welcomed a crash. Then the lights outside went on and I saw that we had come to rest in an underground hangar.

I stayed in the ship. The Commandant came to see me to his quarters as his guest. I shook my head. “I stay here,” I said.“Orders. You are to treat this ship as United States soil, you know,”

He seemed miffed, but compromised by having dinner served for both of us in my ship.

There was a really embarrassing situation the next day. I was commanded to appear for a Royal audience. But I had my instructions and I stuck to them. I was sitting on that cargo of dust until the President told me what to do with it. Late in the day I was called on by amember of Parliament—nobody admitted out loud that it was the Prime Minister—and a Mr. Windsor. The M.P. did most of the talking and I answered his questions. My other guest said very little and spoke slowly with some difficulty. But I got a very favorable impression of him. He seemed to be a man who was carrying a load beyond human strength and carrying it heroically.

There followed the longest period in my life. It was actually only a little longer than a week, but every minute of it had that split-second intensity of imminent disaster that comes just before a car crash. The President was using the time to try to avert the need to use the dust. He had two face-to-face television conferences with the new Fuehrer. The President spoke German fluently, which should have helped. He spoke three times to the warring peoples themselves, but it is doubtful if very many on the Continent were able to listen, the police regulations there being what they were.

The Ambassador from the Reich was given a special demonstration of the effect of the dust. He was flown

outover a deserted stretch of Western prairie and ~ lowed to see what a single dusting would do to a he] of steers. It should have impressed him and Ithu that it did—nobody could ignore a visualdemonstr tion !—but what report he made to his leader wenev knew.

The British Isles were visited repeatedly during t] wait by bombing attacks as heavy as any of the war

was safe enough but I heard about them, and Icou see the effect on the morale of the officers with who I associated. Not that it frightened them—it ma~ them coldly angry. The raids were not directed p1 manly at dockyards or factories, but were ruthless dstruction of anything, particularly villages.

"I don't see what you chaps are waiting for," a fig commander complained to me. "What theJerri need is a dose of their ownshrecklichkeit , a lesson their own Aryan culture."

I shook my head. "We'll have to do it our own way He dropped the matter, but I knew how he and F brother officers felt. They had a standing toast, as scred as the toast to the King: "Remember Coventry! Our President had stipulated that the R. A. F. w not to bomb during the period of negotiation, butth bombers were busy nevertheless. The continent w showered, night after night, with bales of leaflets, p~ pared by our own propaganda agents. The first of the called on the people of the Reich to stop a useless w and promised that the terms of peace would not vindictive. The second rain of pamphlets showed phtographs of that herd of steers. The third was asimf direct warning to get out of cities and to stay out. As Manning put it, we were calling "Halt!"thr times before firing. I do not think that he or the Pre dent expected it to work, but we were morally ob gated to try.

TheBritishers had installed for me atelevisor , oftSimonds-Yarleynonintercept type, the sort where the receiver must "trigger" the transmitter inord for the transmission to take place at all. It madeassi

anceof privacy in diplomaticrapiçl communication for the first time in history, and was a real help in the crisis. I had brought along my own technician, one of the F. B.I.'s new corps of specialists, to handle the scrambler and the trigger.

He called to me one afternoon."Washington signaling.

I climbed tiredly out of the cabin and down to the booth on the hangar floor, wondering if it were another false alarm.

It was the President. His lips were white. "Carry out your basic instructions, Mr.DeFries ."

"Yes, Mr. President!"

The details had been worked out in advance and, once I had accepted a receipt and token payment from the Commandant for the dust, my duties were finished. But, at our instance, the British had invited military observers from every independent nation and from the several provisional governments of occupied nations. The United States Ambassador designated me as one at the request of Manning.

Our task group was thirteen bombers. One such bomber could have carried all the dust needed, but it was split up to insure most of it, at least, reaching its destination. I had fetched forty percent more dust thanRidpath calculated would be needed for the mission and my last job was to see to it that every canister actually went on board a plane of the flight. The extremely small weight of dust used was emphasized to each of the military observers.

We took off just at dark, climbed to twenty-five thousand feet, refueled in the air, and climbed again. Our escort was waiting for us, having refueled thirty minutes before us. The flight split into thirteen groups, and cut the thin air for middle Europe. The bombers we rode had been stripped and hiked up to

permit the utmost maximum of speed and altitude.

Elsewhere in England, other flights had taken off shortly before us to act as a diversion. Theirdestina

tionswere every part of Germany; it was theintentio to create such confusion in the air above the Reich th2 our few planes actually engaged in the seriouswor might well escape attention entirely, flying so highi the stratosphere.

The thirteen dust carriers approached Berlinfnoi different directions, planning to cross Berlin as iffo lowing the spokes of a wheel. The night wasapprechbly clear and we had a low moon to help us. Berlin:

nota hard city to locate, since it has the largestsquan mile area ofaiiy modern city and is located on abroa flat alluvial plain. I could make out the River Spree a we approached it, and theHavel . The city was blacke out, but a city makes a different sort of blackfroi open country. Parachute flares hung over the city i many places, showing that the R. A. F. had been bus before we got there and the A. A. batteries ontli ground helped to pick out the city.

There was fighting below us, but not withinfiftee thousand feet of our altitude as nearly as I couldjudg ~ The pilot reported to the captain, "On line ofbea :

ing!" The chap working the absolute altimetersteaily fed his data into the fuse pots of the canister.Tli canisters were equipped with a light charge ofblac powder, sufficient to explode them and scattertF dust at a time after release predetermined by the fu5 pot setting. The method used was no more than an e ficient expedient. The dust would have been almosta effective had it simply been dumped out in paper bag although not as well distributed.

The Captain hung over the navigator'sboard, slight frown on his thin sallow face. "Ready one!" r ported the bomber.

"Release!"

"Ready two!"

The Captain studied his wristwatch."Release!" "Ready three!"

"Release!"

When the last of our ten little packages was out of the ship we turned tail and ran for home.

No arrangements had been made for me to get home; nobody had thought about it. But it was the one thing I wanted to do. I did not feel badly; I did not feel much of anything. I felt like a man who has at last screwed up his courage and undergone a serious operation; it's over now, he is still numb from shock but his mind is relaxed. But I wanted to go home.

The British Commandant was quite decent about it; he serviced and manned my ship at once and gave me an escort for the offshore war zone. It was an expensive way to send one man home, but who cared? We had just expended some millions of lives in a desperate attempt to end the war; what was a money expense? He gave the necessary orders absentmindedly.

I took a double dose ofnembutal and woke up in Canada. I tried to get some news while the plane was being serviced, but there was not much to be had. The government of the Reich had issued one official news bulletin shortly after the raid, sneering at the much vaunted "secret weapon" of the British and stating that a major air attack had been made on Berlin and several other cities, but that the raiders had been driven off with only minor damage. The current Lord Haw-Haw started one of his sarcastic speeches but was unable to continue it. The announcer said that he had been seized with a heart attack, and substituted some recordings of patriotic music. The station cut off in the middle of the "HorstWessel " song. After that there was silence.

I managed to promote an Army car and a driver at the Baltimore field which made short work of the Annapolis speedway. We almost overran the turnoff to the laboratory.

Manning was in his office. He looked up as I came in, said, "Hello, John," in a dispirited voice, and dropped

hiseyes again to the blotter pad. He went back drawing doodles.

I looked him over and realized for the first timeth the chief was an old man. His face was gray andflabF deep furrows framed his mouth in a triangle. F clothes did not fit.

I went up to him and put a hand on his should~ "Don't take it so hard, chief. It's not your fault. \ gave them all the warning in the world."

He looked up again."EstelleKarstsuicidedti morning.

Anybody could have anticipated it, but nobody dAnd somehow I felt harder hit by her death than by t death of all those strangers in Berlin. "How did she it?" I asked.

"Dust.She went into the canning room, and took her armor."

I could picture her—head held high, eyessnappir and that set look on her mouth which she gotwh people did something she disapproved of. One lit old woman whose lifetime work had been turn against her.

"I wish," Manning added slowly, "that I could plain to her why we had to do it."

We buried her in a lead-lined coffin,thenManni and I went on to Washington.

While we were there, we saw the motionpictui that had been made of the death of Berlin. You ha not seen them; they never were made public, butth were of great use in convincing the other nations oft world that peace was a good idea. I saw themwh Congress did, being allowed in because I was Maning's assistant.

They had been made by a pair of R. A. F.pilots, w had dodged the Luftwaffe to get them. The firstsh showed some of the main streets the morning after t raid. There was not much to see that would show up telephoto shots, just busy and crowded streets,bul

youlooked closely you could see that there had been an excessive number of automobile accidents.

The second day showed the attempt to evacuate. The inner squares of the city were practically deserted

save for bodies and wrecked cars, but the streets leading out of town were boiling with people, mostly on foot, for the trams were out of service. The pitiful creatures were fleeing, not knowing that death was already lodged inside them. The plane swooped down at one point and the cinematographer had his telephoto lens pointed directly into the face of a young woman for several seconds. She stared back at it with a look too woebegone to forget, then stumbled and fell.

She may have been trampled. I hope so. One of those six horses had looked like that when the stuff was beginning to hit his vitals.

The last sequence showed Berlin and the roads around it a week after the raid. The city was dead; there was not a man, a woman, a child—nor cats, nor dogs, not even a pigeon. Bodies were all around, but they were safe from rats. There werenorats .

The roads around Berlin were quiet now. Scattered carelessly on shoulders and in ditches, and to a lesser extent on the pavement itself, like coal shaken off a train, were the quiet heaps that had been the citizens of the capital of the Reich. There is no use in talking about it.

But, so far as I am concerned, I left what soul I had in that projection room and I have not had one since. The two pilots who made the pictures eventually died—systemic, cumulative infection, dust in the air over Berlin. With precautions it need not have happened, but the English did not believe, as yet, that our extreme precautions were necessary.

The Reich took about a week to fold up. It might have taken longer if the new Fuehrer had not gone to Berlin the day after the raid to "prove" that the British boasts had been hollow. There is no need to recount

theprovisional governments that Germany had in t] following several months; the only one we are co cerned with is the so-called restored monarchywhh used a cousin of the old Kaiser as a symbol, the 01 that sued for peace.

Then the trouble started.

When the Prime Minister announced the terms the private agreement he had had with ourPresider he was met with a silence that was broken only Icries of "Shame! Shame! Resign!" I suppose it wasi evitable; the Commons reflected the spirit of apeop who had been unmercifully punished for fouryeaiThey were in a mood to enforce a peace thatwou have made the Versailles Treaty look like the Beatudes .

The vote of no confidence left the Prime Ministeri choice. Forty-eight hours later the King made aspee ~ from the throne that violated all constitutionalprec dent, for it had not been written by a PrimeMinist In this greatest crisis in his reign, his voice wascle and unlabored; it sold the idea to England and a ntional coalition government was formed.

I don't know whether we would have dustedLond to enforce our terms or not; Manning thinks wewou have done so. I suppose it depended on thecharact of the President of the United States, and there isi way of knowing about that since we did not have to

it.

The United States, and in particular the President the United States, was confronted by twoinescapaL

problems. First, we had to consolidate our position once, use our temporary advantage of anoverwheli ingly powerful weapon to insure that such aweap ~ would not be turned on us. Second, some means

tobe worked out to stabilize American foreignpoli so that it could handle the tremendous power we suddenly had thrust upon us.

The second was by far the most difficult andserioi . If we were to establish a reasonablypermane

peace—say a century or so—through a monopoly on a weapon so powerful that no one dare fight us, it was imperative that the policy under which we acted be more lasting than passing political administrations. But more of that later-The first problem had to be attended to at once— time was the heart of it. The emergency lay in the very simplicity of the weapon. It required nothing but aircraft to scatter it and the dust itself, which was easily and quickly made by anyone possessing the secret of the Karst-Obre process and having access to a small supply of uranium-bearing ore.

But theKarst-Obre process was simple and might be independently developed at any time. Manning reported to the President that it wasRidpath's opinion, concurred in by Manning, that the staff of any modern radiation laboratory should be able to work out an equivalent technique in six weeks, working from the hint given by the events in Berlin alone, and should then be able to produce enough dust to cause major destruction in another six weeks.

Ninety days—ninety days provided they started from scratch and were not already halfway to their goal. Less than ninety days—perhaps no time at all— By this time Manning was an unofficial member of the Cabinet; "Secretary of Dust," the President called him in one of his rare jovial moods. As for me, well, I attended Cabinet meetings, too. As the only layman who had seen the whole show from beginning to end, the President wanted me there.

I am an ordinary sort of man who, by a concatenation of improbabilities, found himself shoved into the councils of the rulers. But I found that the rulers were ordinary men, too, and frequently as bewildered as I was.

But Manning was no ordinary man. In him ordinary hard sense had been raised to the level of genius. Oh, yes, I know that it is popular to blame everything on him and to call him everything from traitor to mad

dog, but I still think he was both wise andbenevoler I don't care how many second-guessing historiansdi agree with me.

"I propose," said Manning, "that we begin byir mobilizing all aircraft throughout the world."

The Secretary of Commerce raised hisbrov ~ "Aren't you," he said, "being a little fantastic, Colon Manning?"

"No, I'm not," answered Manning shortly. "I' beingrealistic. The key to this problem isaircraWithout aircraft the dust is an inefficient weapon. TI only way I see to gain time enough to deal with t] whole problem is to ground all aircraft and put the out of operation. All aircraft, that is, not actually the service of the United States Army.After that '~ can deal with complete world disarmament andpemanent methods of control."

"Really now," replied the Secretary, "you are n proposing that commercial airlines be put out of oeration . They are an essential part of worldeconomIt would be an intolerable nuisance."

"Getting killed is an intolerable nuisance, too Manning answered stubbornly. "I do proposeju that.All aircraft. All."

The President had been listening withoutcomme to the discussion. He now cut in. "How aboutaircra on which some groups depend to stay alive,Colom such as the Alaskan lines?"

"If there are such, they must be operated byAme can Army pilots and crews. No exceptions."

The Secretary of Commerce looked startled. "Anto infer from that last remark that you intendedti prohibition to apply to the United States as well other nations?"

"Naturally."

"But that's impossible. It's unconstitutional. Itvilates civil rights."

"Killing a man violates his civil rights, too," Maning answered stubbornly.

"You can't do it. Any Federal Court in the country would enjoin you in five minutes."

"It seems to me," said Manning slowly, "that Andy Jackson gave us a good precedent for that one when he told John Marshall to go fly a kite." He looked slowly around the table at faces that ranged from undecided to antagonistic. "The issue is sharp, gentlemen, and we might as well drag it out in the open. We can be dead men, with everything in due order, constitutional, and technically correct; or we can do what has to be done, stay alive, and try to straighten out the legal aspects later." He shut up and waited.

The Secretary of Labor picked it up. "I don't think the Colonel has any corner on realism. I think I see the problem, too, and I admit it is a serious one. The dust must never be used again. Had I known about it soon enough, it would never have been used on Berlin. And I agree that some sort of worldwide control is necessary. But where I differ with the Colonel is in the method. What he proposes is a military dictatorship imposed by force on the whole world. Admit it, Colonel. Isn't that what you are proposing?"

Manning did not dodge it. "That is what I am proposing.

"Thanks. Now we know where we stand. I, for one, do not regard democratic measures and constitutional procedure as of so little importance that I am willing to jettison them any time it becomes convenient. To me, democracy is more than a matter of expediency, it is a faith. Either it works, or I go under with it."

"What do you propose?" asked the President.

"I propose that we treat this as an opportunity to create a worldwide democratic commonwealth! Let us use our present dominant position to issue a call to all nations to send representatives to a conference to form a world constitution."

"League of Nations," I heard someone mutter.

"No!" he answered the side remark. "Not a League of Nations. The old League was helpless because it had

noreal existence, no power. It was notimplementc to enforce its decisions; it was just a debatingsociet a

sham. This would be different for we would turnov the dust to it!"

Nobody spoke for some minutes. You could see the:

turningit over in their minds, doubtful, partially a~ proving, intrigued but dubious.

"I'd like to answer that," said Manning.

"Go ahead," said the President.

"I will. I'm going to have to use some prettypla ~ language and I hope that Secretary Lamer will do n the honor of believing that I speak so fromsinceril and deep concern and not frompersorìal pique.

"I think a world democracy would be a very flu thing and I ask that you believe me when I say Iwoul willingly lay down my life to accomplish it. I ah think it would be a very fine thing for the lion to 1 down with the lamb, but I am reasonably certainth :

onlythe lion would get up. If we try to form anactu world democracy, we'll be the lamb in the setup.

"There are a lot of good, kindly people who arei :

ternationaliststhese days. Nine out of ten of them a:

softin the head and the tenth is ignorant. If we seti . a worldwide democracy, what will the electorate b~ Take a look at the facts: Four hundred millionChine :

with no more concept of voting and citizenrespombility than a flea; three hundred million Hinduswi aren't much better indoctrinated; God knows ho many in the Eurasian Union who believe in Godknoi ~ what; the entire continent of Africa onlysemicivilize eighty million Japanese who really believe thatth are Heaven-ordained to rule; our Spanish-Americ~ friends who might trail along with us and mightnc but who don't understand the Bill of Rights the w~ we think of it; a quarter of a billion people of twodoz different nationalities in Europe, all with revenge an black hatred in their hearts.

"No, it won't wash. It's preposterous to talk about world democracy for many years to come. If youtu]

thesecret of the dust over to such a body.von will 1

armingthe whole world to commit suicide."

Lamer answered at once. "I could resent some of your remarks, but I won't. To put it bluntly, I consider the source. The trouble with you, Colonel Manning, is that you are a professional soldier and have no faith in people. Soldiers may be necessary, but the worst of them are martinets and the best are merely paternalistic." There was quite a lot more of the same.

Manning stood it until his turn came again. "Maybe I am all those things, but you haven't met my argument. What are you going to do about the hundreds of millions of people who have no experience in, nor love for, democracy? Now, perhaps, I don't have the same concept of democracy asyourself , but I do know this:

Out West there are a couple of hundred thousand people who sent me to Congress; I am not going to stand quietly by and let a course be followed which I think will result in their deaths or utter ruin.

"Here is the probable future, as I see it, potential in the smashing of the atom and the development of lethal artificialradioactives . Some power makes a supply of the dust. They'll hit us first to try to knock us out and give them a free hand.New York and Washington overnight, then all of our industrial areas while we are still politically and economically disorganized. But our army would not be in those cities; we would have planes and a supply of dust somewhere where the first dusting wouldn't touch them. Our boys would bravely and righteously proceed to poison their big cities. Back and forth it would go until the organization of each country had broken down so completely that they were no longer able to maintain a sufficiently high level of industrialization to service planes and manufacture dust. That presupposes starvation and plague in the process. You can fill in the details.

"The other nations would get in the game. It would be silly and suicidal, of course, but it doesn't take brains to take a hand in this. All it takes is a very small group, hungry for power, a few airplanes and a supply ~mfdllQtIt'c aa~ic'r,~jcc'ir ,-lo that ,'ai',i-ic,t,-,,-,cci~l-,li, ho

stoppeduntil the entire planet has dropped to a level economy too low to support the techniques necessaryi main tam it. My best guess is that such a pointwoul be reached when approximately three-quarters oftF world's population were dead of dust, disease, orhui gem, and culture reduced to the peasant-and-villa~ type.

"Whereis your Constitution and your Bill ofRigh if you let that happen?"

I've shortened it down, but that was the gist of it.can't hope to record every word of an argumentth ~ went on for days.

The Secretary of the Navy took a crack at himnex "Aren't you getting a bit hysterical, Colonel? After a] the world has seen a lot of weapons which weregoir to make war an impossibility too horrible to conten plate. Poison gas, and tanks, and airplanes—even fir arms, if I remember my history."

Manning smiled wryly. "You've made a point, M Secretary. 'And when the wolf really came, theliii boy shouted in vain.' I imagine the Chamber of Conmerce in Pompeii presented the samereasonab argument to any earlyvulcanologistso timid as tofe ~ Vesuvius. I'll try to justify my fears. The dustdiffe] from every earlier weapon in its deadliness and ease use, but most importantly in that we havedevelope no defense against it. For a number of fairlytechnic ~ reasons, Idont think we ever will, at least notth century."

"Why not?"

"Because there is no way to counteractradioactivil short of putting a lead shield between yourself andi an airtight lead shield. People might survive bylivir in sealed underground cities, but ourcharacterist American culture could not be maintained."

"Colonel Manning," suggested the Secretary State, "I think you have overlooked the obviousalte native."

"Have I?"

''Vcsc_tnlroont1n~.rui~ Cniirnn;nccsrrat ,ynniirnfl

way, and let the rest of the world look out for itself. That is the only program that fits our traditions." The Secretary of State was really a fine old gentleman, and not stupid, but he was slow to assimilate new

ideas.

"Mr. Secretary," said Manning respectfully, "I wish we could afford to mind our own business. I do wish we could. But it is the best opinion of all the experts that we can't maintain control of this secret except by rigid policing. The Germans were close on our heels in nuclear research; it was sheer luck that we got there first. I ask you to imagine Germany a year hence—with a supply of dust."

The Secretary did not answer, but I saw his lips form the word Berlin.

They came around. The President had deliberately let Manning bear the brunt of the argument, conserving his own stock of goodwill to coax the obdurate. He decided against putting it up to Congress; the dusters would have been overhead before each senator had finished his say. What he intended to do might be unconstitutional, but if he failed to act there might not be any Constitution shortly. There was precedent— the Emancipation Proclamation, the Monroe Doctrine, the Louisiana Purchase, suspension of habeas corpus in the War between the States, the Destroyer Deal.

On February 22nd the President declared a state of full emergency internally and sent his Peace Proclamation to the head of every sovereign state. Divested of its diplomaticsurplusage , it said: The United States is prepared to defeat any power, or combination of powers, in jig time. Accordingly, we are outlawing war and are calling on every nation to disarm completely at once. In other words, "Throw down your guns, boys; we've got the drop on you!"

A supplement set forth the procedure: All aircraft capable of flying the Atlantic were to be delivered in one week's time to a field, or rather a great stretch of prairie, just west of Fort Riley, Kansas. For lesser aircraft, a spot near Shanghai and a rendezvous in Wales

weredesignated. Memoranda would be issued lat with respect to other war equipment. Uranium andi ores were not mentioned; that would come later.

No excuses. Failure to disarm would be construe as an act of war against the United States.

There were no cases of apoplexy in the Senate;wF not, I don't know.

There were only three powers to be seriouslywoned about, England, Japan, and the EurasianUnio :

England had been forewarned, we had pulled heroi of a war she was losing, and she-or rather her meni power—knew accurately what we could andwou] do.

Japan was another matter. They had not seenBerli and they did not really believe it. Besides, they ha been telling each other for so many years thatth were unbeatable, they believed it. It does not do togi too tough witha Japanese too quickly, for they will d rather than lose face. The negotiations werecoi ducted very quietly indeed, but our fleet washalfw ~ from Pearl Harbor to Kobe, loaded with enoughdu to sterilize their six biggest cities, before they we~ concluded. Do you know what did it? This never h the newspapers but it was the wording of the parphlets we proposed to scatter before dusting.

The Emperor was pleased to declare a New Order Peace. The official version, built up for home co sumption , made the whole matter one ofcollaboratic between two great and friendly powers, withJapa taking the initiative.

The Eurasian Union was a puzzle. After Stalin'sui expected death in 1941, no western nation knewvei much about what went on in there. Our owndiplmatic relations had atrophied through failure to r place men called home nearly four yearsbefor Everybody knew, of course, that the new group power called themselves Fifth Internationalists, bi what that meant, aside from ceasing to displayti pictures of Lenin and Stalin, nobody knew.

But they agreed to our terms and offered to cooperate in every way. They pointed out that the Union had never been warlike and had kept out of the recent world struggle. It was fitting that the two remaining great powers should use their greatness to insure a lasting peace.

I was delighted; I had been worried about the E. U. They commenced delivery of some of their smaller planes to the receiving station near Shanghai at once. The reports on the number and quality of the planes seemed to indicate that they had stayed out of the war through necessity; the planes were mostly of German make and in poor condition, types that Germany had abandoned early in the war.

Manning went west to supervise certain details in connection with immobilizing the big planes, the transoceanic planes, which were to gather near Fort Riley. We planned to spray them with oil, then dust from a low altitude, as in crop dusting, with a low concentration of one-year dust. Then we could turn our backs on them and forget them, while attending to other matters.

But there were hazards. The dust must not be allowed to reach Kansas City, Lincoln, Wichita—any of the nearby cities. The smallertowns roundabout had been temporarily evacuated. Testing stations needed to be set up in all directions in order that accurate tab on the dust might be kept. Manning felt personally responsible to make sure that no bystander was poisoned.

We circled the receiving station before landing at Fort Riley. I could pick out the three landing fields which had hurriedly been graded. Their runways were white in the sun, the twenty-four-hour cement as yetundirtied . Around each of the landing fields were crowded dozens of parking fields, less perfectly graded. Tractors and bulldozers were still at work on some of them. In theeastemnmost fields, the German and British ships were already in place, jammed wing to body as tightly as planes on the flight deck of a car-

rier—save for a few that were still being towedmt position, the tiny tractors looking from the airlil ~ ants dragging pieces of leaf many times largertha themselves.

Only three flying fortresses had arrived fromtli Eurasian Union. Their representatives had asked for short delay in order that a supply of high-testaviatio gasoline might be delivered to them. They claimed shortage of fuel necessary to make the long flightov the Arctic safe. There was no way to check theclaii and the delay was granted while a shipmentwa routed from England.

We were about to leave, Manning havingsatisfie himself as to safety precautions, when adispatc came in announcing that a flight of E. U.bombei might be expected before the day was out.Mannini wanted to see them arrive; we waited around forfor hours. When it was finally reported that our escort fighters had picked them up at the Canadianborde Manning appeared to have grown fidgety and state that he would watch them from the air. We took of gained altitude and waited.

There were nine of them in the flight, cruising in coumn of echelons and looking so huge that ourlittl fighters were hardly noticeable. They circled thefiel and I was admiring the stately dignity of themwhe Manning's pilot, Lieutenant Rafferty, exclaimed "What the devil! They are preparing to landdowi wind!"

I still did not tumble, but Manning shouted toti copilot, "Get the field!"

He fiddled with his instruments and announced "Got 'em, sir!"

"General alarm!Armor!"

We could not hear the sirens, naturally, but Icou] see the white plumes rise from the big steam whist on the roof of the Administration Building—threebr blasts, then three short ones. It seemed almost attI same time that the first cloud broke from the E. I planes.

Instead of landing, they passed low over the receiving station,jampacked now with ships from all over the world. Each echelon picked one of three groups centeredaround the three landing fields and streamers of heavy brown smoke poured from the bellies of the E. U. ships. I saw a tiny black figure jump from a tractor and run toward the nearest building. Then the smoke screen obscured the field.

"Do you still have the field?" demanded Manning."Yes, sir."

"Crossconnect to the chief safety technician.Hurry!"

The copilot cut in the amplifier so that Manning could talk directly. "Saunders? This is Manning.How about it?"

"Radioactive, chief.Intensity seven point four."They had paralleled theKarst-Obre research.

Manning cut him off and demanded that the communication office at the field raise the Chief of Staff. There was nerve-stretching delay, for it had to be routed over land wire to Kansas City, and some chief operator had to be convinced that she should commandeer a trunk line that was in commercial use. But we got through at last and Manning made his report. "It stands to reason," I heard him say, "that other flights are approaching the border by this time.New York, of course, and Washington.Probably Detroit and Chicago as well. No way of knowing."

The Chief of Staff cut off abruptly, without comment. I knew that the U.S. air fleets, in a state of alert for weeks past, would have their orders in a few seconds, and would be on their way to hunt out and down the attackers, if possible before they could reach the cities.

I glanced back at the field. The formations were broken up. One of the E. U. bombers was down, crashed, half a mile beyond the station. While I watched, one of our midget dive bombers screamed down on a behemoth E. U. ship and unloaded his eggs. It was a center hit, but the American pilot had cut it

toofine, could not pull out, and crashed before his vitim .

There is no point in rehashing the newspaperstorh of the Four-Days War. The point is that we should ha's lost it, and we would have, had it not been foranui likely combination of luck, foresight, and goodmai agement . Apparently, the nuclear physicists oftF Eurasian Union were almost as far along asRidpath crew when the destruction of Berlin gave them theti they needed. But we had rushed them, forced them 1 move before they were ready, because of thedea(line for disarmament set forth in our PeaceProclam ~ tion .

If the President had waited to fight it out with Cogress before issuing the proclamation, there would n

be any United States.

Manning never got credit for it, but it is evident me that he anticipated the possibility ofsomethii like the Four-Days War and prepared for it in adoz different devious ways. I don't mean military prep ration; the Army and the Navy saw to that. But it w no accident that Congress was adjourned at thetim I had something to do with the vote-swapping am compromising that led up to it, and I know.

But I put it to you—would he have maneuvered

getCongress out of Washington at a time when I

fearedthat Washington might be attacked if he h~

haddictatorial ambitions?

Of course, it was the President who was back of t] ten-day leaves that had been granted to most of t] civil-service personnel in Washington and hehims must have made the decision to take a swingthrouf the South at that time, but it must have beenMannii who put the idea in his head. It is inconceivableth the President would have left Washington toesca ~ personal danger.

And then, there was the plague scare. I don'tkno how or when Manning could have started that—it cetainly did not go through my notebook—but Isimp

donot believe that it was accidental that a completely unfounded rumor of bubonicplaguc ~ caused New York City to besemideserted at the time the E. U. bombers struck.

At that, we lost over eight hundred thousand people in Manhattan alone.

Of course, the government was blamed for the lives that were lost and the papers were merciless in their criticism at the failure to anticipate and force an evacuation of all the major cities.

If Manning anticipated trouble, why did he not ask for evacuation?

Well, as I see it, for this reason:

A big city will not be, never has been, evacuated in response to rational argument. London never was evacuated on any major scale and we failed utterly in our attempt to force the evacuation of Berlin. The people of New York City had considered the danger of air raids since 1940 and were long since hardened to the thought.

But the fear of a nonexistent epidemic of plague caused the most nearly complete evacuation of a major city ever seen.

And don't forget what we did to Vladivostok andIrkutsk and Moscow—those were innocent people, too. War isn't pretty.

I said luck played a part. It was bad navigation that caused one of our ships to dustRyazan instead of Moscow, but that mistake knocked out the laboratory and plant which produced the only supply of militarymadioactives in the Eurasian Union. Suppose the mistake had been the other way around—suppose that one of the E. U. ships in attacking Washington, D.C., by mistake had included Ridpath's shop forty-five miles away in Maryland?

Congress reconvened at the temporary capital in St. Louis, and the American Pacification Expedition started the job of pulling the fangs of the Eurasian Union. It was not a military occupation in the usual sense; there were two simple objectives: to search out

anddust all aircraft, aircraft plants, and fields, and locate and dust radiation laboratories, uraniumsu plies, and bodes ofcarnotite and pitchblende. Noa tempt was made to interfere with, or to replace,ci ~ government.

We used a two-year dust, which gave abreathir spell in which to consolidate our position. Liberal r wards were offered to informers, a techniquewhh worked remarkably well not only in the E. U., but most parts of the world.

The "weasel," an instrument to smell outradiatio based on the electroscope-discharge principle and r fined byRidpath's staff, greatly facilitated the work locating uranium and uranium ores. A grid ofwease] properly spaced over a suspect area, could locateai important mass of uranium almost as handily as a c rection -finder can spot a radio station.

But, notwithstanding the excellent work ofGenerBulfinch and the Pacification Expedition as a whole, was the original mistake of dustingRyazan that ma the job possible of accomplishment.

Anyone interested in the details of thepacificati work done in 1945—6 should see the "Proceedings the American Foundation for Social Research" for paper entitled A Study of the Execution of theAmeric Peace Policy from February, 1945. The de factosoluti of the problem of policing the world against war k the United States with the much greater problem perfecting a policy that would insure that the dead power of the dust would never fall into unfit hand:

The problem is as easy to state as the problem squaring the circle and almost as impossible of a complishment . Both Manning and the President blieved that the United States must of necessityke ~ the power for the time being, until somepermane institution could be developed fit to retain it.The ha and was this: Foreign policy is lodged jointly inti hands of the President and the Congress. We werefctunate at the time in having a good President and adequate Congress, but that was no guarantee forti

future. We have had unfit Presidents and power-hungry Congresses—oh, yes! Read the history of the Mexican War.

We were about to hand over to future governments of the United States the power to turn the entire globe into an empire, our empire. And it was the sober opinion of the President that our characteristic and beloved democratic culture would not stand up under the temptation. Imperialism degrades both oppressor and oppressed.

The President was determined that our sudden power should be used for the absolute minimum of maintaining peace in the world—the simple purpose of outlawing war and nothing else. It must not be used to protect American investments abroad, to coerce trade agreements, for any purpose but the simple abolition of mass killing.

There is no science of sociology. Perhaps there will be, some day, when a rigorous physics gives a finished science of colloidal chemistry and that leads in turn to a complete knowledge of biology, and from there to a definitive psychology. After that we may begin to know something about sociology and politics. Sometime around the year 5000 A. D., maybe—if the human race does not commit suicide before then.

Until then, there is only horse sense and rule of thumb and observational knowledge of probabilities. Manning and the President played by ear.

The treaties with Great Britain, Germany and the Eurasian Union, whereby we assumed the responsibility for world peace and at the same time guaranteed the contracting nations against our own misuse of power, were rushed through in the period of relief and goodwill that immediately followed the termination of the Four-Days War. We followed the precedents established by the Panama Canal treaties, the Suez Canal agreements, and the Philippine Independence policy.

But the purpose underneath was to commit future governments of the United States to an irrevocable

benevolentpolicy.

The act to implement the treaties by creatingtF Commission of World Safety followed soon after,an Colonel Manning became Mr. Commissioner Maining . Commissioners hada life tenure and theinteition was to create a body with theintegrit permanence and freedom from outside pressure p0:

sessedby the Supreme Court of the United State Since the treaties contemplated an eventual join trust, commissioners need not be Americancitizensand the oath they took was to preserve the peace of t1~ world.

There was trouble getting the clause past theCoigress ! Every other similar oath had been to the Const tution of the United States.

Nevertheless the Commission was formed.Ittoc charge of world aircraft, assumed jurisdiction over r~ dioactives , natural and artificial, and commencedtF long slow task of building up the Peace Patrol.

Manning envisioned a corps of world policemen, a aristocracy which, through selection andindoctrim tion , could be trusted with unlimited power over life of every man, every woman, every child on thefa (of the globe. For the power would be unlimited;ti precautions necessary to insure theunbeatab weapon from getting loose in the world again made axiomatic that its custodians would wield powerth ~ is safe only in the hands of Deity. There would be r one to guard those selfsame guardians. Their o~ characters and the watch they kept on eachoth would be all that stood between the race anddisasteFor the first time in history, supreme politicalpow was to be exerted with no possibility of checks an balances from the outside. Manning took uptheta ~ of perfecting it with a dragging subconsciousconvition that it was too much for human nature.

The rest of the Commission was appointedsbowl the names being sent to the Senate after long joint coisideration by the President and Manning. The direct of the Red Cross, an obscure little professor of histoi

fromSwitzerland, Dr. IgorRimski who had developed theKarst-Obre techniqueindepen'dently and whom the A. P. F. had discovered in prison after the dusting of Moscow—those three were the only foreigners. The rest of the list is well known.

Ridpathand his staff were of necessity the original technical crew of the Commission; United States Army and Navy pilots its first patrolmen. Not all of the pilots available were needed; their records were searched, their habits and associates investigated, their mental processes and emotional attitudes examined by the best psychological research methods available—which weren't good enough. Their final acceptance for the Patrol depended on two personal interviews, one with Manning, one with the

President.

Manning told me that he depended more on the President's feeling for character than he did on all the association and reaction tests the psychologists could think up. "It's like the nose of a bloodhound," he said. "In his forty years of practical politics he has seen more phonies than you and I will ever see and each one was trying to sell him something. He can tell one in the dark."

The long-distance plan included the schools for the indoctrination of cadet patrolmen, schools that were to be open to youths of any race, color, or nationality, and from which they would go forth to guard the peace of every country but their own. To that country a man would never return during his service. They were to be a deliberately expatriated band ofJanizanies , with an obligation only to the Commission and to the race, and welded together with a carefully nurtured esprit de corps.

It stood a chance of working. Had Manning been allowed twenty years without interruption, the original plan might have worked.

The President's running mate for reelection was the result of a political compromise. The candidate for

Vice President was a confirmed isolationist who ha opposed the Peace Commission from the first, but was he or a party split in a year when theoppositio was strong. The President sneaked back in but with greatly weakened Congress; only his power of vet twice prevented the repeal of the Peace Act. The Vic President did nothing to help him, although he did n publicly lead the insurrection. Manning revised h plans to complete the essential program by the end 1952, there being no way to predict the temper oftF next administration.

We were both overworked and I was beginning 1 realize that my health was gone. The cause was notfi to seek; a photographic film strapped next to my ski would cloud in twenty minutes. I was sufferingfroi cumulative minimal radioactive poisoning. Nowel defined cancer that could be operated on, but asytemic deterioration of function and tissue. There w~ no help for it, and there was work to be done. I've a ways attributed it mainly to the week I spentsittir on those canisters before the raid on Berlin.

February 17, 1951. I missed thetelevue flashaboi the plane crash that killed the President because I w~ lying down in my apartment. Manning, by thattim was requiring me to rest every afternoon afterlunc though I was still on duty. I first heard about it fro:

mysecretary when I returned to my office, and atom hurried into Manning's office.

There was a curious unreality to that meeting.seemed to me that we had slipped back to that d~ when I returned from England, the day thatEstelKarst died. He looked up. "Hello, John," he said.

I put my hand on his shoulder. "Don't take it hard, chief," was all I could think of to say.

Forty-eight hours later came the message fromti newly sworn-in President for Manning to report him. I took it in to him, an officialdespatch which decoded. Manning read it, face impassive.

"Are you going, chief?" I asked.

"Eh?Why, certainly."

I went back into my office, and got my topcoat, gloves, and briefcase.

Manning looked up when I came back in. "Never mind, John," he said. "You're not going." I guess I must have looked stubborn, for he added, "You're not to go because there is work to do here. Wait a minute." He went to his safe, twiddled the dials, opened it and removed a sealed envelope which he threw on the desk between us. "Here are your orders. Get busy."

He went out as I was opening them. I read them through and got busy. There was little enough time.

The new President received Manning standing and in the company of several of his bodyguards and intimates. Manning recognized the senator who had led the movement to use the Patrol to recover expropriated holdings in South America and Rhodesia, as well as the chairman of the committee on aviation with whom he had had several unsatisfactory conferences in an attempt to work out a modus operandifor.reinstituting commercial airlines.

"You're prompt, I see," said the President. "Good." Manning bowed.

"We might as well come straight to the point," the Chief Executive went on. "There are going to be some changes of policy in the administration. I want your resignation."

"I am sorry to have to refuse, sir."

"We'll see about that. In the meantime, Colonel Manning, you are relieved from duty."

"Mr. Commissioner Manning, if you please."

The new President shrugged."One or the other, as you please. You are relieved, either way."

"I am sorry to disagree again. My appointment is for life."

"That's enough," was the answer. "This is the United States of America. There can be no higher authority. You are under arrest."

I can visualize Manning staring steadily at him for

along moment, then answering slowly, "You a physically able to arrest me, I will concede, but I a vise you to wait a few minutes." He stepped to thewidow . "Look up into the sky."

Six bombers of the Peace Commissionpatrolh over the Capitol."None of those pilots isAmeric ~ born," Manning added slowly. "If you confineni none of us here in this room will live out the day.' There were incidents thereafter, such as theunfctunate affair at FortBenning three days later, and t] outbreak in the wing of the Patrol based in Lisbon au its resultant wholesale dismissals, but forpractic purposes, that was all there was to the coupd'etat . Manning was the undisputed military dictator the world.

Whether or not any man as universally hated Manning can perfect the Patrol he envisioned, make self-perpetuating and trustworthy, I don'tkno ' and—because of that week of waiting in a buried Enlish hangar—I won't be here to find out.Manninl heart disease makes the outcome even moreuncc tam—he

may last another twenty years; he mayke over dead tomorrow—and there is no one to take F place. I've set this down partly to occupy the she time I have left and partly to show there isanoth side to any story, even world dominion.

Not that I would like the outcome, either way. there is anything to this survival-after-death busine5 I am going to look up the man who invented thebc and arrow and take him apart with my barehanc For myself, I can't be happy in a world where any ma or group of men, has the power of death over youai me, our neighbors, every human, every animal, eve living thing. I don't like anyone to have that kind power.

And neither does Manning.